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ILLINOIS CORN PERFORMANCE TESTS . . . 1941



University of Illinois · Agricultural Experiment Station

Bulletin 482

In cooperation with the Division of Cereal Crops and Diseases, Bureau of Plant Industry, U. S. Department of Agriculture, and the Illinois State Natural History Survey

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Eighth Annual Illinois Corn Performance Tests 1941

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BENJAMIN KOEHLER, and OREN BOLIN¹

THE ILLINOIS ACREAGE of hybrid corn continued its upward trend in 1941, when plantings were expanded 840,950 acres over 1940 even tho the total corn acreage was not materially changed. Despite a shortage of moisture in many localities the average yield was 52.5 bushels an acre, the highest ever recorded for Illinois and higher than that of any other state in 1941.

The 1941 increase brought the total plantings of hybrid corn in Illinois to 6,651,150 acres, or 87 percent of the total corn acreage. This percentage was exceeded only by Iowa, where 95 percent of the area planted to corn was planted with hybrid seed. Indiana ranked next to Illinois, with 80 percent, followed by Ohio with 74 percent. The country as a whole produced 87 million acres of corn in 1941, 37 percent of which was planted with hybrid seed.

SCOPE OF THE TESTS

Three hundred forty-eight hybrids and 14 open-pollinated varieties were tested on twelve Illinois corn-performance test fields in 1941. Sixty-two companies and individuals, including the Illinois Agricultural Experiment Station, entered hybrid seed in the tests, and 13 individuals and the Experiment Station furnished the open-pollinated seed.

The number of hybrids tested varied for each field. Five hand-pollinated open-pedigree hybrids were included on each field as a check. One open-pollinated variety was planted for comparison on the northeastern, northern, north-central, and central fields. Five open-pollinated varieties were used as checks on the south-central, southern, southeastern, and southwestern fields.

Seed samples were obtained directly from the warehouses of the producers entering the corn, except in a few instances where small quantities were shipped to the Experiment Station by the producers.

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These small samples and all samples taken from less than 5 different bushel lots are marked with an asterisk (*) in the tables.

SOIL CHARACTERISTICS OF FIELDS

The fields chosen for the 1941 tests were, on the whole, medium to high in productivity. In locating a field, effort was made to select a soil type that occurs extensively in the region represented by the field. Furthermore care was taken to have each field as nearly uniform

Table 1.—GENERAL INFORMATION: Illinois Cooperative Corn Performance Tests, 1941

Location of field	County	Cooperator	Number of entries	Date planted	Date harvested	Average acre-yield all entries	
						Total	Sound
NE—Volo.....	Lake.....	William Wirtz.....	52	May 20	Nov. 12	95.0	91.9
N—Kings.....	Ogle.....	Elmer Hayes.....	68	May 12	Nov. 4	86.3	82.1
WNC—Cambridge...	Henry.....	Earl Collis.....	78	May 21	Nov. 13	103.0	96.7
ENC—Reddick.....	Kankakee...	Thomas Jenson.....	60	May 9	Nov. 17	85.5	81.9
WC—Littleton.....	Schuyler...	Ira Burnham.....	72	May 13	Nov. 10	82.3	75.4
C—Mt. Pulaski...	Logan.....	James Cowan.....	72	May 13	Dec. 18	94.2	89.5
EC—Paxton.....	Ford.....	Arthur Stevenson...	64	May 24	Nov. 15	105.1	99.0
ESC—Sullivan.....	Moultrie...	Masonic Home Farm, Monroe Wilson, Mgr.	66	May 8	Oct. 21	102.7	99.0
WSC—Greenfield...	Greene.....	Glenn Smith.....	57	May 19	Oct. 16	112.6	109.9
S—Shobonier.....	Fayette...	Henry Opfer.....	45	May 23	Nov. 19	18.6	16.7
SE—Albion.....	Edwards...	Elmer & Robert Hortin	40	May 26	Oct. 13	60.0	57.6
SW—Modoc.....	Randolph...	Bernard Naeger.....	43	May 1	Oct. 28	50.0	49.1

as possible, both in soil type and drainage conditions. At Paxton the depth to unleached compact glacial till was variable. The testing field at Shobonier contained a number of "slick spots." At Modoc the depth to the sand substratum was variable.

The approximate location of the twelve test fields is shown by the map on page 528. General information on soil characteristics and soil-management practices is indicated in Table 2.¹

METHOD OF PLANTING

In order that the trials might be carried on under actual farm conditions, the test plots were located within a larger cornfield. The test plot was planted by hand on the day the rest of the field was planted.

¹R. S. SMITH, Chief in Soil Physics and Soil Survey, and G. D. SMITH, Associate in Soil Physics and Soil Survey, determined the soil type, uniformity, and physical characteristics of each field. H. J. SNIDER, Assistant Chief in Soil Experiment Fields, made the chemical analyses.

The rows of the test plot were joined with those of the surrounding corn so they could be cultivated with the rest of the field.

On all test fields each entry was planted in 6 plots, each plot being 10 hills long and 2 rows wide.

All plots were planted 3 kernels to a hill, and the only correction made for imperfect stand was to adjust the yields for missing hills. All seed was treated with organic mercury dust before planting.

Entries were arranged in controlled random order. With the few exceptions indicated in the tables of results, all plots of each entry were harvested. At Littleton only five complete replications were harvested.

SEASONAL CONDITIONS

The early growing season in 1941 was very favorable for corn on all test fields except Volo, Kings, and Reddick. Corn on these three fields made a slower and less vigorous growth than corn on the other fields because of wet cold weather. All twelve testing fields had abundant moisture during the early stages of growth.

The abundant moisture did not, however, continue thru the entire growing season on all fields. By the middle of July corn on the Kings, Reddick, Albion, and Shobonier fields appeared to be suffering from lack of moisture. The Modoc field at this time was very dry, having had only one good rain since planting; some of the lower leaves had fired, and there was considerable leaf rolling. However, because this field was planted early (May 1), the plants passed the peak of the critical stage before the moisture shortage became acute, and the yield was consequently higher than it would ordinarily have been with this moisture shortage. All other fields appeared to have ample moisture.

By the third week in August the plants on the Shobonier field had fired uniformly up to the ear. No rain had fallen for approximately six weeks. A deficiency of potassium and a medium and uniform chinch-bug infestation helped to aggravate the injury due to this drouthy period. The Kings, Reddick, Cambridge, Mt. Pulaski, and Albion fields were all handicapped a little by lack of moisture at this time. At the same time the Albion field was considerably fired, and the ears were beginning to lose some of their moisture.

The Mt. Pulaski test field was moderately damaged by a hailstorm during the last week in June. This occurred before there was any silking or tasselling and consequently only the leaves below the ear were damaged.

An abundance of fall rains delayed the harvesting of the test fields and made for higher moisture in the grain at harvest time. The excessive moisture during the fall also resulted in considerable kernel damage from rot, which is shown in the tables as "Percent damaged corn in shelled sample."

Table 2.—TESTING FIELDS: Soil Characteristics and Management Practices

a—Surface color and drainage b—Subsoil texture, and underdrainage	pH values Surface	Organic matter Surface	Total nitrogen Surface	Nitrate nitrogen Surface	Available phosphorus Surface	Available potassium Surface	Previous crops and soil management
Northeastern							
<i>Volo—Correlation unknown</i>		perct.	lbs.	lbs.	lbs.	lbs.	
a—Black, slow.....	7.2	7 90	8480	80	80	250	Small grain 1938, corn 1939, combined soybeans 1940. Manured 1941. Spring plowed.
b—Silty clay loam, moderate.....							
Northern							
<i>Kings—Muscatine silt loam</i>							
a—Brown, moderate.....	5.2	4.20	4480	55	170	320	Barley 1938, corn 1939, soy- beans 1940. Limed 1938, rock phosphate 1938, ma- nured 1940. Spring plowed.
b—Silty clay loam, moderate.....							
West north-central							
<i>Cambridge—Muscatine silt loam</i>							
a—Brown, moderate.....	4.9	4.40	4360	70	70	470	Corn 1938, oats 1939, sweet clover 1940. Limed. Fall plowed.
b—Silty clay loam, moderate.....							
East north-central							
<i>Reddick—Brenton silt loam</i>							
a—Brown, moderate.....	7.5	5.35	5200	50	90	190	Corn 1938, oats 1939, sweet clover pasture 1940. Rock phosphate 1939, limed 1939. Fall plowed.
b—Clay loam, moderate.....							
West-central							
<i>Littleton—Ipava silt loam (tentative)</i>							
a—Brown, moderate.....	4.8	3.90	3840	70	40	260	Wheat 1938, red clover 1939, corn 1940. Spring plowed.
b—Silty clay, moderately slow.....							
Central							
<i>Mt. Pulaski—Sable silty clay loam to silty clay</i>							
a—Black, slow.....	5.1	4.65	4440	65	50	260	Combined soybeans 1938, oats 1939, red clover 1940. Fall plowed.
b—Silty clay, moderate.....							
East-central							
<i>Patton—Elliott clay loam</i>							
a—Black, slow.....	5.2	4.96	5160	50	130	410	Corn 1938, oats 1939, sweet clover and red clover pasture 1940. Manured 1940, limed 1938. Fall plowed.
b—Clay loam, moderately slow.....							
East south-central							
<i>Sullivan—Flanagan silt loam</i>							
a—Brown, moderate.....	5.3	3.90	4200	80	110	315	Corn 1938, oats 1939, sweet clover pasture 1940. Ma- nured 1940. Fall plowed.
b—Silty clay, moderate.....							
West south-central							
<i>Greenfield—Ipava silt loam (tentative)</i>							
a—Brown, moderate.....	5.0	4.05	3960	80	400	320	Alfalfa 1936, 1937, 1938, corn 1939, corn 1940. Manured 1939, 1940, limed 1928, 1935, rock phosphate 1940. Spring plowed.
b—Silty clay loam, moderately slow..							
Southern							
<i>Shobonier—Cane silt loam (slick spots)</i>							
a—Gray, slow.....	5.0	2.20	2080	40	25	130	Corn 1938, oats 1939, wheat (sweet clover) 1940. Ma- nured 1940. Spring plowed.
b—Clay, very slow.....							
Southeastern							
<i>Albion—Patton silty clay loam</i>							
a—Brownish-gray, slow.....	5.6	3.10	3200	70	170	290	Wheat 1938, sweet clover 1939, corn 1940. Spring plowed.
b—Silty clay loam, moderately slow..							
Southwestern							
<i>Modoc—Gorham clay loam (some Beaucoup clay loam)</i>							
a—Drab, moderate.....	5.6	3.65	3440	85	280	550	Corn 1938, wheat 1939, red clover 1940. Fall and spring plowed.
b—Clay, moderately slow.....							

Soil samples collected June 12, 13, 16, and 17, 1941.

INSECT PROBLEMS

The susceptibility of many commercial corn hybrids to rootworm attack was brought to the attention of Illinois farmers very forcefully during the fall of 1941. Added to all the other difficulties of harvesting in wet fields was the clogging of the machinery as a result of severe lodging caused by the southern corn rootworm, *Diabrotica duodecimpunctata* (Fab.) in many fields; frequently corn was pulled out of the ground by the husker. This condition was manifested in five of the test fields—Reddick, Littleton, Mt. Pulaski, Paxton, and Greenfield.

In two of the fields, Littleton and Paxton, the corn was very badly lodged owing to rootworm attack. At Littleton the average lodging of the hybrids was 69.2 and at Paxton 62.8 percent. At Reddick, Mt. Pulaski, and Greenfield it ranged from 19.5 percent to 23.5 percent. (Plants are considered lodged when they lean 30 degrees or more from the perpendicular, this leaning extending to and including the roots.)

For four of these five fields the average percent of lodging given in the tables includes also the one open-pollinated variety grown. At



Rootworms attacked only one of these root systems

These roots grew in the same field. The susceptible plant (*right*) was badly injured by southern corn rootworms, while the resistant plant (*left*) was not harmed.

Greenfield five open-pollinated varieties were grown and are separated from the hybrids in making up averages and resistance ratings. With each table is a footnote indicating the difference in the total lodging necessary for significance, and the table should be studied with this difference in mind.

Tables 13, 17, 21, 24, and 29 show that many widely used hybrids are below average in their resistance to lodging caused by rootworm attack. These data show why so much corn was badly lodged in Illinois during 1941. It should be kept in mind that the lodging reported in these tables is only that caused by rootworms.

On the Paxton and Littleton fields the hybrids underwent a very severe test, and those able to stand demonstrated superior rootworm resistance.

Some of the hybrids tested gave a consistently good account of themselves. Two- and three-year summaries for such entries as were tested on the Reddick and Littleton fields are given in Tables 14 and 18. The data are not for successive years because there was not always enough damage in each field to give worth-while differences. The small number of entries listed in these tables merely indicates the rapid changes in hybrids being used.

DISEASE LOSSES

Two diseases of corn—ear rots and *Diplodia* stalk rot—caused serious losses in 1941.

Ear rots. In 1941 ear rots caused more damage in Illinois than in any year since 1934. Widespread and severe kernel damage occurred on ten of the twelve test fields. Only Greenfield and Modoc, in the southwestern area of the state, escaped unusual damage. The rot was caused principally by *Diplodia zeae* and *Fusarium moniliforme* and developed mainly after the rainy weather began about September 30.

Kernel damage from rot is given for each entry for each test field in the column "Damaged corn in shelled sample." Hybrids differ greatly in their susceptibility to ear rots. Since there is a large experimental error in rot determination due to sampling, the two- to five-year summary tables give more accurate information on the resistance and susceptibility of entries than the annual tables.

Diplodia stalk rot. For the third time in the last five years *Diplodia* stalk rot caused serious damage in a considerable area of the state where susceptible hybrids were grown. It caused serious injury to many farmers' fields in central, south-central, and north-central Illinois, but caused significant premature dying of plants on only two test fields, Sullivan and Mt. Pulaski. The data from these test fields, together with some data from an experiment conducted at Urbana,

Table 3.—STALK-ROT DAMAGE: Premature Dying of Corn Plants Caused Principally by Diplodia Stalk Rot in Two Performance-Test Fields and at the Experiment Station at Urbana (Observed September 6-16, 1941)

Hybrid	Extent of premature dying			Hybrid	Extent of premature dying		
	Mt. Pulaski	Sulli-van	Urbana		Mt. Pulaski	Sulli-van	Urbana
	perct.	perct.	perct.		perct.	perct.	perct.
Bear OK-32.....	19.0	16.8	....	Illinois 2059 (W).....	....	3.3	....
Bear OK-34.....	21.0	....	....	Illinois 2077A (W).....	....	6.8	....
Bear OK-36.....	....	35.0	....	Iowealth AQ7.....	13.0	12.8	....
Bear OK-40.....	....	8.3	....	Iowealth 25A.....	20.0	....	....
Bear OK-55.....	21.0	....	....	Iowealth 29A.....	....	8.8	....
Bear OK-66.....	13.0	11.3	....	Kelly K-99.....	10.0	....	....
Bear OK-69.....	9.0	10.3	....	Kelly K-100.....	15.0	....	....
Crow 501 (W).....	19.0	....	....	Kelly K-374.....	14.0	....	....
Crow 603.....	....	13.5	....	Macon 666.....	10.0	5.2	....
Crow 607.....	3.0	5.8	....	Moews-Lowe 514.....	13.0	....	....
Crow 608.....	34.0	18.3	....	Moews-Lowe 523.....	12.0	....	....
Crow 701 (W).....	....	8.2	....	Moews-Lowe 560.....	22.0	....	....
Crow 804.....	32.0	15.0	....	Moews-Lowe 830.....	....	3.5	....
Crow 805.....	10.0	8.3	....	Moews-Lowe 850.....	....	9.8	....
Crow 806.....	....	6.7	....	Moews-Lowe 860.....	....	2.8	....
E. W. Doubet D53.....	....	8.0	....	National 125.....	28.0	....	....
E. W. Doubet D54.....	....	5.2	....	Null N-16.....	23.0	....	....
Durst 8.....	26.0	....	....	Null N-17.....	3.0	....	....
Durst 46.....	....	9.7	....	Null N-38.....	16.0	....	....
Durst 66.....	33.0	....	....	Null N-61.....	....	16.3	....
Farmcraft 81.....	....	13.8	....	Null N-89.....	6.0	....	....
Farmcraft 132 (W).....	....	2.2	....	Null N-95.....	....	8.2	....
Funk G-46.....	....	11.3	....	Null-Vollmer NV-29.....	12.0	....	....
Funk G-97.....	3.0	....	....	Null-Vollmer NV-47.....	7.0	....	....
Funk G-103.....	3.0	10.8	....	Null-Vollmer NV-96.....	2.0	....	....
Funk G-139.....	2.0	5.8	....	Pfeifer A-1-40.....	....	7.2	....
Funk G-147.....	6.0	0	....	Pioneer 300.....	15.0	16.0	....
Henley & Whisnand 815.....	....	9.2	....	Pioneer 313.....	19.0	16.2	....
Henley & Whisnand 831.....	....	8.0	....	Pioneer 332.....	16.0	13.7	....
Henley & Whisnand 834.....	....	11.5	....	Pioneer 333.....	....	23.3	....
Henley & Whisnand 883.....	....	3.3	....	Pioneer 334.....	....	31.7	....
Holmes Utility 35.....	12.0	....	....	Pioneer 336.....	13.0	10.8	....
Holmes Utility 69.....	1.0	....	....	Pioneer 337.....	1.0	3.5	....
Hulting 101.....	27.0	....	....	Producers' 1000.....	....	8.5	....
Hulting 380B.....	28.0	....	....	Seeber 11A.....	12.0	....	....
Illinois 21.....	4.0	....	....	Sibley Farms S73.....	7.0	....	....
Illinois 126.....	28.0	....	14.5	Sibley Farms S75.....	13.0	....	....
Illinois 200*.....	5.0	6.6	....	Sibley Farms 753B.....	9.0	....	4.8
Illinois 201*.....	16.2	12.9	....	Stiegelmeier 38.....	7.0	....	....
Illinois 205.....	....	....	7.6	Stiegelmeier 100.....	26.0	....	....
Illinois 206.....	6.0	4.2	....	Stiegelmeier 365.....	....	....	18.8
Illinois 227.....	10.0	....	....	Stiegelmeier 901.....	16.0	....	....
Illinois 246.....	....	....	14.0	Stiegelmeier 904.....	10.0	....	....
Illinois 247*.....	16.5	....	8.4	U. S. 5.....	....	....	18.5
Illinois 257.....	18.0	....	16.8	U. S. 13*.....	14.5	8.2	8.2
Illinois 374.....	....	....	33.0	Wilson 193.....	10.0	....	....
Illinois 500.....	....	....	11.9	Open-pollinated			
Illinois 501.....	....	5.8	....	Canterbury Yellow Dent..	....	8.3	....
Illinois 578.....	....	....	19.4	Rice White Dent.....	....	14.5	....
Illinois 716.....	6.0	....	....	Shuman Golden Beauty..	....	7.3	....
Illinois 784*.....	....	5.9	....	Station Yellow Dent.....	22.0	20.3	12.9
Illinois 805*.....	6.5	....	....	Wilson Yellow Dent.....	....	14.3	....
Illinois 877.....	....	12.8	....			
Illinois 885A.....	....	15.3	....			
Illinois 960.....	23.0	....	32.2				
Illinois 972.....	....	....	16.8				
Illinois 2015A (W).....	....	11.3	....			
Illinois 2020 (W).....	....	8.3	....			
Illinois 2049 (W).....	....	6.2	....			

*Average of two or more entries from different sources.

are given in Table 3. Only the infection that was severe enough to cause premature dying of the plants is reported. The data were collected when all healthy plants were still green and all the leaves of sick plants were partly or wholly dead. When there was any doubt about the cause of the premature death, the stalks were examined for Diplodia rot. The data cover all replications of each entry in each test and may be considered fairly accurate for the time and place involved.

Varieties differed widely in their susceptibility to Diplodia. Besides having innate differences in resistance and susceptibility, hybrids be-



Diplodia stalk rot on the observational plot at Urbana

The resistant hybrid at the left suffered no damage, while the susceptible hybrid at the right went down badly.

come more susceptible when grown south of the region where they are best adapted to the length of growing season, and less susceptible when grown north of their adapted areas. The same statement can be made of the susceptibility of hybrids to Stewart's disease.

Early death from stalk rot reduces yields because the ears do not have a chance to develop fully. Diplodia also causes stalk-breaking (see opposite page). If the infection occurs late in the growing season, this may be the only type of damage. Stalk-breaking not only makes harvesting difficult, but in wet weather causes the ears to come in contact with the soil and to rot severely.

Stewart's disease. On some farmers' fields in the south-central part of the state, Stewart's disease developed early enough in 1941 to cause significant damage, and later seems to have spread to nearly all fields in the southern two-thirds of the state as a limited leaf blight which caused little damage. Helminthosporium leaf blight also caused premature dying of the leaves in at least a few farmers' fields. Drouth caused premature firing in some areas; and in some fields where water appeared to be adequate the corn was blighted, the cause of which could not be determined. None of these leaf disorders except those caused by drouth were of great significance in the test fields.

Smut. Losses from smut infection occurred on at least a few farmers' fields, but in the state as a whole the damage appeared to be a little below normal.

MEASURING PERFORMANCE OF ENTRIES

The entries in 1941 were rated, as they were each year since 1935, on the basis of two measures of performance—erect plants at harvest (lodging resistance) and yield of sound corn.

Erect plants. The percentage of erect plants in each entry on each field was estimated at the time of harvest. The *rating* for erect plants of an entry is the ratio of erect plants of that entry to the average number of erect plants on the field, multiplied by 100.

There were three types of lodging on the test fields—that due to rootworm damage, to broken stalks just below the ear, and to broken stalks toward the base of the plant.

Sound corn. To determine shelling percentage, the entire yield from one replicate of each entry was shelled. From this shelled corn one sample was taken to determine the percentage of moisture at harvest, and another to determine the percentage of damaged kernels, by weight. The moisture determinations were made with a Tag-Heppenstall moisture meter. The percentage of damaged corn was determined according to the federal grain standards.

The total acre-yield was calculated as shelled corn carrying 15.5 percent moisture, the upper limit allowable for No. 2 corn. The yield of sound corn was computed by deducting the amount of damaged corn from the total yield.

The rating on sound yield is the ratio, expressed as percentage, of the yield of sound corn for that entry to the average yield of sound corn for all the entries on the field.

General performance. In computing the general-performance rating of an entry, the ratings for erect plants and sound corn were averaged, but the sound-corn rating was given three times the weight of the rating for erect plants. When two or more entries tied in the general-performance rating, the ties were given the same numerical ranking, but they were listed in the order of their descending yield of sound corn. If the two entries had the same yield of sound corn, then they were listed on the basis of total corn.

Chance differences. Too much confidence must not be placed in the exact ranking of a hybrid in the following tables, for chance has played a part in determining the placing of many of them. Unmeasured differences in soil and in prevalence of insects and diseases, and unaccountable variability in stand will cause differences in yield that are not inherent in the hybrids or varieties.

The part played by chance in the 1941 tests has been calculated by the mathematical procedure known as "analysis of variance." At the bottom or side of each table is stated the approximate difference which there must be in the 1941 yields to show a true inherent difference between any two entries. Unless this difference exists there is no assurance that one entry is inherently higher yielding than the other.

Readers are urged to note the difference necessary for significance, as shown for each test field, and to keep that difference constantly in mind in all comparisons of entries on that field.

DISCUSSION OF 1941 TEST

When studying the 1941 yield test, it should be kept in mind that these results are for one year only, and also that hybrids react differently to different soil types, productivity levels, attacks by insects and diseases, and to different seasonal conditions. Wherever possible, the adaptability of an individual hybrid should be studied by noting its performance on all fields where it has been tested.

The fact that a corn is classed as a hybrid does not indicate that it is always superior to open-pollinated corn. At Kings, Cambridge, Reddick, Mt. Pulaski, and Sullivan, the average sound yield of the 5 lowest ranking hybrids in the test was less than the average of the open-pollinated varieties (Table 4). On all fields, however, the 5

poorest hybrids had a higher percentage of erect plants than the open-pollinated varieties, except at Modoc, where the open-pollinated varieties had more than twice as many erect plants.

On all the 1941 test fields the 5 best hybrids (ranked on the basis of general performance) exceeded the average sound yield of the 5 poorest hybrids by 16.5 bushels an acre. The greatest difference between the 5 best and the 5 poorest hybrids was 30.6 bushels of sound corn an acre at Cambridge, while at Paxton the difference was only 8.4 bushels. On the latter field two of the high-yielding hybrids had an exceptionally low general-performance rating because of their small number of erect plants. They were therefore not ranked with the 5 best, which accounts for the narrow spread between the sound yield of the 5 poorest and the 5 best hybrids on this field.

Judged on one year's data, many hybrids tested for the first time in 1941 show considerable promise. Among these are several Illinois white hybrids which were tested on the Sullivan field. These hybrids were high yielding but did not stand so well as some of the yellow hybrids. Too much emphasis must not be placed on these results as these hybrids may not perform the same under a different environment.

At Shobonier the top-ranking hybrids apparently were better able to withstand a dry period, potash deficiency, and attack by chinch bugs. The hybrid ranking highest on this field in the 1941 test as well as in the two- and three-year summaries was bred and developed under these same hazards and has been consistently good in this section of the state. In spite of adverse conditions all of the hybrids tested at Shobonier had a higher general-performance rating than the average of the open-pollinated varieties. In 1938 only a few hybrids exceeded the average of the open-pollinated varieties, indicating an improvement in hybrids for the southern section of the state in the past three years.

Lodging resistance had a marked influence on the general-performance rating of the hybrids on the Littleton, Mt. Pulaski, and Paxton fields.

In choosing a hybrid one should keep in mind that the tables in this bulletin give an unbiased indication of the yielding and standing ability of the hybrids and their reactions to certain insects and diseases when grown under various environmental conditions. Other important characteristics such as ease of husking, husk cover, and ear height can best be learned from supplemental tests in the locality where the hybrids are to be grown.

Dropped ears. Count was made of the dropped ears on all of the testing fields in 1941, but on only two of the fields, Littleton and Mt. Pulaski, was there an appreciable number of ears on the ground. On these fields the percentage of dropped ears was computed by dividing the number of dropped ears by the number of plants, the assumption

Table 4.—Average Yields of the Five Best Hybrids, the Five Poorest Hybrids, the Five Hybrid Checks, and the Open-Pollinated Varieties: 1941 Test Fields

Field	Sound yield					Lodging resistance				
	Five best hybrids	Five poorest hybrids	Five hybrid checks	Open pollinated var.	Superiority of 5 best hybrids over poorest	Five best hybrids	Five poorest hybrids	Five hybrid checks	Open pollinated var.	Superiority of 5 best hybrids over poorest
	bu.	bu.	bu.	bu.	bu.	percl.	percl.	percl.	percl.	percl.
Volo.....	100.8	83.2	90.3	70.6*	30.2	97.7	95.0	95.0	86.7*	11.0
Kings.....	91.3	74.2	76.0	77.6*	17.1	88.3	66.0	81.7	50.0*	26.6
Cambridge.....	111.7	81.1	102.9	90.8*	20.9	78.0	84.7	83.3	51.7*	28.0
Reddick.....	89.2	74.6	83.4	75.8*	13.4	88.0	75.7	82.3	51.7*	36.3
Littleton.....	84.6	63.0	79.7	62.0*	22.6	49.2	21.6	37.6	6.0*	43.2
Mt. Pulaski.....	94.2	77.6	89.4	81.7*	16.6	76.3	27.0	51.0	26.7*	49.6
Paxton.....	105.7	97.3	102.1	87.4*	18.3	71.2	51.2	65.2	40.0*	31.2
Sullivan.....	105.3	88.2	103.2	88.6	16.7	91.0	70.7	64.7	58.7	32.3
Greenfield.....	119.2	102.9	115.2	95.5	23.7	92.3	84.3	82.3	70.0	22.3
Shoemaker.....	25.8	12.2	15.5	10.2	15.6	69.6	74.5	80.4	68.4	1.2
Albion.....	65.3	49.8	60.3	46.6	18.7	87.7	72.7	72.4	72.0	15.7
Modoc.....	55.2	46.5	49.1	38.8	16.4	59.3	22.0	26.7	51.7	7.6
Average.....	87.4	70.9	80.6	68.8	16.5	79.1	62.1	68.6	53.6	25.5

*Only 1 open-pollinated variety grown in these fields.

being that there was a perfect stand, that each plant had one ear, and that there were no barren stalks.

At Littleton the average percentage of dropped ears for all entries was about 1 percent (.95). The following hybrids had 3 to 4 percent dropped ears: Bear OK-66 and OK-72, Crow 608, Iowealth AQ₇, McCurdy 123M, Null N-95, and U.S. 13. Hybrids having 2 to 2.99 percent dropped ears were Ferris 9, Illinois 205, Kelly K-99, and Null N-54. Nineteen other hybrids had 1 to 2 percent dropped ears.

At Mt. Pulaski the average percentage of dropped ears for all entries was 1.16 percent. Null N-17 dropped over 6 percent of its ears, and Null N-89 dropped over 4 percent. Illinois 805 had over 3 percent dropped ears, and the following hybrids had from 2 to 3 percent: Bear OK-34, OK-55, OK-66, and OK-69; Crow 805; Illinois 126, 201, 206, and 716; Kelly K-99; Null-Vollmer NV-47; and Stiegelmeier 901. Seventeen other hybrids had 1 to 2 percent dropped ears.

FIVE-, FOUR-, THREE-, AND TWO-YEAR SUMMARIES

The importance of having data from several season's tests for rating the performance of a hybrid can hardly be overemphasized. A uniformly high rating over a period of years is much more desirable in a corn than an extremely high rating in some years and a low rating in others. Results of a single season's test should be taken as indicating promise or the lack of it, rather than as conclusive evidence of merit or inferiority. Summary tables showing the average performance of entries that have been in the tests for two to five years are presented along with the 1941 results.

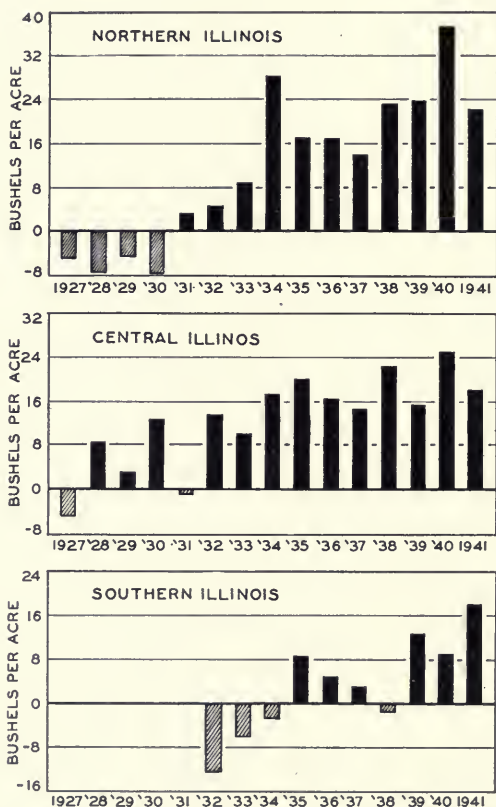
The summary tables do not include any hybrids which were not in the 1941 test. In the northeastern, southern, and southeastern fields not even one hybrid which was in the test in 1937 was in the 1941 test.

The change in specific entries from year to year may be seen from the average number of hybrids included in the various summary tables. The average number of hybrids per field in 1941 was 57. Included in the two-year summary were 23 hybrids; in the three-year summary, 11; in the four-year, 5; and in the five-year, only 2.

Sometimes an entry ranks high in the four- and five-year summary tables but not so high in the two- and three-year tables or in the 1941 table. This is usually because better yielding hybrids have been included in the tests during recent years, and those which were top-ranking entries in the earlier tests have been unable to measure up to them in field performance. Entries which rank first in the five-year summaries have an average rank of third in the four-year summaries, sixth in the three-year summaries, and ninth in the two-year summaries.

The progressive improvement in hybrids is further shown in the summary tables in the amount by which the hybrids have outyielded the open-pollinated varieties. The average total yield of all hybrid entries was 12.7 bushels more than the open-pollinated varieties in the five-year tables, 13.0 bushels in the four-year tables, 13.1 bushels in the three-year tables, and 14.2 bushels in the two-year tables.

A good indication of the superiority of a hybrid is its ranking in all summary tables as well as in the annual tables. If it is near the top in the 1941 tables and ranks well toward the top in all summary tables, the hybrid is most assuredly a good one.



Differences between yields of hybrids and open-pollinated varieties 1927-1941

The above bars show the amounts by which the yields of the five best hybrids have exceeded (*black*) or have fallen below (*crosshatch*) the five best open-pollinated varieties in three sections of Illinois.

PEDIGREES OF ILLINOIS AND U. S. HYBRIDS

Following is a partial list of Illinois and U. S. hybrids. The performance of those that are starred is shown in this bulletin.

- Ill. 15....(WF9 x 38-11) (159L1 x I224)
 *Ill. 21....(WF9 x 38-11) (187-2 x Hy)
 Ill. 53....(WF9 x M14) (Pr x I205)
 *Ill. 99....(CC5 x CC7) (WF9 x CC1)
 *Ill. 101....(WF9 x M14) (CC7 x 187-2)
 Ill. 104....(CC5 x CC7) (A x Hy)
 Ill. 110....(38-11 x Kys) (Tr x L317)
 Ill. 115....(5120 x Kys) (Tr x L317)
 Ill. 117....(K4 x 38-11) (Tr x L317)
 *Ill. 126....(WF9 x 38-11) (Tr x L317)
 Ill. 172....(R4 x Hy) (A x 540)
 *Ill. 200....(WF9 x 38-11) (K4 x L317)
 *Ill. 201....(WF9 x 38-11) (187-2 x L317)
 *Ill. 205....(WF9 x 38-11) (159L1 x L317)
 *Ill. 206....(WF9 x 38-11) (5120 x L317)
 Ill. 208....(B2 x 38-11) (K4 x L317)
 *Ill. 212....(WF9 x 38-11) (4-8 x 187-2)
 Ill. 215....(5120 x 38-11) (187-2 x L317)
 *Ill. 219....(CC5 x CC7) (WF9 x Hy)
 *Ill. 227....(WF9 x 38-11) (Hy x Tr)
 Ill. 236....(Os420 x Os426) (WF9 x L317)
 *Ill. 246....(WF9 x Hy) (187-2 x L317)
 *Ill. 247....(187-2 x 38-11) (Hy x L317)
 Ill. 255....(WF9 x 38-11) (159L1 x 187-2)
 *Ill. 257....(Hy x 187-2) (701 x L317)
 *Ill. 258....(Hy x 187-2) (L289 x L317)
 Ill. 262....(WF9 x M14) (187-2 x L317)
 *Ill. 263....(WF9 x M14) (Kr(Os) x LdgK)
 *Ill. 269....(CC10 x CC24) (WF9 x Hy)
 *Ill. 272....(WF9 x CC10) (A375 x 101)
 *Ill. 275....(Kys x G) (38-11 x K180)
 *Ill. 278....(CC10 x CC24) (WF9 x A)
 *Ill. 288....(WF9 x Hy) (K4 x 38-11)
 Ill. 308....(WF9 x M14) (4-8 x 187-2)
 *Ill. 319....(WF9 x M14) (A x 90)
 Ill. 337....(A x 90) (187-2 x L317)
 Ill. 339....(CC5 x CC7) (A x 90)
 Ill. 345....(Pr x I205) (WF9 x R4)
 *Ill. 350....(WF9 x R4) (187-2 x L317)
 Ill. 374....(R4 x Hy) (187-2 x L317)
 Ill. 384....(WF9 x R4) (A x Hy)
 *Ill. 387....(CC5 x CC7) (R4 x Hy)
 *Ill. 448....(38-11 x Kys) (K4 x L317)
 Ill. 449....(Hy x 540) (K4 x L317)
 *Ill. 450....(R4 x Kys) (K4 x L317)
 Ill. 498....(5120 x 4211) (701 x L317)
 Ill. 500....(WF9 x 38-11) (701 x L317)
 Ill. 500-1....(WF9 x 38-11) (O7 x L317)
 *Ill. 501....(WF9 x 38-11) (Hy x 5120)
 Ill. 504....(WF9 x L317) (R4 x Hy)
 Ill. 507....(A x 90) (WF9 x R4)
 Ill. 570....(A x 90) (Hy x 540)
 Ill. 571....(Tr x 90) (Hy x 540)
 Ill. 578....(Hy x I224) (187-2 x L317)
 Ill. 582....(R4 x L317) (Hy x 540)
 *Ill. 600....(187-2 x 38-11) (159L1 x L317)
- Ill. 606.....(R4 x Hy) (NI4 x 5120)
 *Ill. 697.....(CC24 x CC10) (WF9 x 101)
 *Ill. 700.....(Kys x L317) (38-11 x K180)
 Ill. 710.....(R4 x Hy) (Tr x L317)
 *Ill. 713.....(WF9 x 38-11) (G x L317)
 *Ill. 716.....(WF9 x Hy) (38-11 x L317)
 *Ill. 751.....(A x 90) (WF9 x Hy)
 Ill. 762.....(A x Hy) (R4 x L317)
 Ill. 772-1.....(R4 x Hy) (159L1 x L317)
 *Ill. 784.....(Hy x 5120) (K4 x L317)
 Ill. 791.....(A x 90) (701 x L317)
 *Ill. 801.....(5120 x Kys) (K4 x L317)
 *Ill. 805.....(187-2 x 38-11) (K4 x L317)
 *Ill. 824.....(Kys x G) (K4 x L317)
 *Ill. 838.....(38-11 x Pr) (K4 x L317)
 Ill. 845.....(WF9 x CC1) (Pr x I205)
 Ill. 846.....(A x 90) (Pr x I205)
 Ill. 855.....(R4 x Hy) (G x L317)
 Ill. 863.....(R4 x Hy) (K4 x L317)
 *Ill. 863A.....(Hy x L317) (R4 x K4)
 *Ill. 877.....(R4 x Pr) (K4 x L317)
 *Ill. 885A.....(R4 x 38-11) (K4 x L317)
 Ill. 940-1.....(5120 x 4211) (159L1 x L317)
 *Ill. 944.....(R4 x L317) (WF9 x Hy)
 *Ill. 960.....(R4 x Hy) (701 x L317)
 *Ill. 972.....(WF9 x Hy) (701 x L317)
 *Ill. 976.....(WF9 x R4) (Hy x 540)
 Ill. 1073.....(R4 x L317) (5120 x Hy)
 Ill. 1075.....(4-8 x Hy) (R4 x L317)
 *Ill. 1092.....(A x 90) (WF9 x CC1)
 *Ill. 1500.....(WF9 x 38-11) (US2 x R94)
 Ill. 2000(W)....(US24 x US61) (33-16 x Ky27)
 Ill. 2011A(W)....(33-16 x B103) (US61 x Ky27)
 *Ill. 2015A(W)....(R24 x US43) (33-16 x Ky27)
 Ill. 2016(W)....(33-16 x B103) (K6 x US61)
 Ill. 2019(W)....(Ky27 x R30) (33-16 x US61)
 *Ill. 2020(W)....(Ky27 x R30) (K6 x US61)
 Ill. 2023(W)....(Ky27 x K6) (33-16 x US24)
 Ill. 2036(W)....(R24 x US41) (33-16 x Ky27)
 Ill. 2043(W)....(33-16 x K6) (Ky27 x US43)
 Ill. 2046(W)....(33-16 x US41) (K6 x Ky27)
 *Ill. 2049(W)....(33-16 x US24) (Ky27 x B103)
 Ill. 2055(W)....(B103 x R24) (33-16 x Ky27)
 *Ill. 2059(W)....(Ky27 x US61) (33-16 x K6)
 Ill. 2060(W)....(Ky27 x US61) (K6 x B103)
 *Ill. 2077A(W)....(33-16 x Ky 27) (US61 x US43)
 Ill. 2100(W)....(R24 x US61) (33-16 x Ky27)
 Ill. 2104(W)....(B103 x US41) (Ky27 x K6)
 Ill. 2106(W)....(R25 x 33-16) (Ky27 x US61)
 *U. S. 5.....(R4 x L317) (WF9 x 38-11)
 *U. S. 13.....(Hy x L317) (WF9 x 38-11)
 *U. S. 14.....(Hy x L317) (WF9 x R4)
 *U. S. 35.....(WF9 x 38-11) (R4 x Hy)
 *U. S. 44.....(187-2 x 4-8) (Hy x 540)
 *U. S. 45.....(461-3 x 4-8) (Hy x 540)
 *U. S. 63.....(R4 x WF9) (Hy x 540)

CONTRIBUTORS OF SEED FOR THE 1941 TESTS

Bear Hybrids.....	A. Linn Bear.....	Decatur
Blackhawk.....	Otto Kruetzberg.....	Marine
Canterbury Yellow Dent.....	C. E. Canterbury.....	Cantrall
Champion White Pearl.....	F. V. Wilson & Son.....	Edgewood
Crow Hybrids.....	Crow Hybrid Corn Co.....	Milford
E. W. Doubet Hybrids.....	E. W. Doubet.....	Hanna City
Durst Hybrids.....	C. E. Durst.....	Champaign
Dyar Hybrid D81.....	W. S. Dyar.....	Metamora
Farmcraft Hybrids.....	Farmcraft Seed Co.....	Oxford, Indiana
Ferris Hybrids.....	Ferris Seed Co.....	Princeton
Funk Hybrids.....	Funk Bros. Seed Co.....	Bloomington
Furr Hybrids.....	Kenneth Furr.....	Genoa
Fritsch Hybrid 451.....	Fritsch Bros.....	Plano
Hahn Hybrids.....	Hahn Seed Co.....	Dwight
Hawkeye Hybrids.....	Hamilton Seed & Coal Co..	Cedar Rapids, Ia.
Henley & Whisnand Hybrids.....	Thomas Henley.....	Arcola
	Myron Whisnand.....	Arcola
Holmes Utility Hybrids.....	Charles Holmes.....	Edelstein
Hoosier-Crost Hybrids.....	Harold Liebenow.....	Sheldon
Huebsch Hybrids.....	L. A. Huebsch & Son.....	Mundelein
Huebsch-Murdock Yellow Dent.....	L. A. Huebsch & Son.....	Mundelein
Huey Hybrid 20.....	Huey Seed Co.....	Carthage
Hulting Hybrids.....	G. E. Hulting & Son.....	Geneseo
Illinois Hybrid 21.....	W. S. Dyar.....	Metamora
Illinois Hybrid 21.....	Frey Hybrid Corn Co.....	Gilman
Illinois Hybrid 21.....	Huey Seed Co.....	Carthage
Illinois Hybrids 21, 200, 201.....	Macon County Seed Co.....	Decatur
Illinois Hybrid 21.....	Carl Munson.....	Galesburg
Illinois Hybrids 99, 101, 126, 200, 206, 219, 227, 245, 257, 258, 263, 269, 272, 275, 278, 288, 374, 387, 448, 450, 600, 697, 700, 713, 716, 751, 784, 801, 805, 824, 838, 863A, 877, 885A, 960, 972, 976, 1092, 1500, 2015(W), 2020(W), 2049(W), 2059(W), 2077A(W).....	Ill. Agr. Exp. Sta.....	Urbana
Illinois Hybrid 200.....	Harlan Powers.....	Brocton
Illinois Hybrids 200, 784.....	Myron Whisnand.....	Arcola
Illinois Hybrids 200, 201, 246.....	Edward Wilson.....	Winchester
Illinois Hybrid 201.....	Clarence Doubet.....	Hanna City
Illinois Hybrids 201, 247.....	Jacob Lauer, Jr.....	Broadwell
Illinois Hybrid 201.....	Lester L. Lehmann & Sons..	Pleasant Plains
Illinois Hybrids 201, 805.....	Mountjoy Seed Co.....	Atlanta
Illinois Hybrid 205.....	Harold Oakes.....	Bluffs
Illinois Hybrid 206.....	Thomas Henley.....	Arcola
Illinois Hybrid 212.....	C. Leland Monier.....	Sparland
Illinois Hybrid 319.....	Fritsch Bros.....	Plano
Illinois Hybrid 319.....	L. A. Huebsch & Son.....	Mundelein
Illinois Hybrids 350, 751.....	Ferris Seed Co.....	Princeton
Illinois Hybrid 350.....	I. L. & A. G. Sieben.....	Geneseo
Illinois Hybrid 501.....	Ind. Hyb. Prod. of Ill., Inc..	Pekin
Illinois Hybrid 751.....	A. I. Coldwater & Son.....	Elwood
Illinois Hybrids 784, 805, 877.....	Castle Hybrid Corn Co.....	Alton
Illinois Hybrid 784.....	George Pfeifer.....	Arcola
Illinois Hybrid 944.....	G. E. Hulting & Son.....	Geneseo
Ioway Supercorn.....	Roland Holden.....	Williamsburg, Ia.
Iowearth Hybrids.....	Michael-Leonard Seed Co..	Chicago

Contributors of Seed for the 1941 Tests (Concluded)

Kelly Hybrids.....	Kelly Seed Co.....	San Jose
Krug.....	Krug Bros.....	Minonk
Leaming.....	H. C. Neville.....	Harrisburg
Macon Hybrid 666.....	Macon County Seed Co.....	Decatur
Maland Yellow Dent.....	John Maland.....	Leland
McCurdy Hybrids.....	W. O. McCurdy & Sons.....	Fremont, Iowa
McLurkin White Dent.....	Theodore Brown.....	Coulterville
McNeilly Hybrids.....	Percy Fruin.....	Oregon
Miller Hybrid 1050 (W).....	Bert A. Miller.....	Forrest
Missouri Hybrid 8.....	C. F. McMullin Estate.....	Sikeston, Mo.
M-L Hybrids.....	B. E. Moews.....	Granville
	L. L. Lowe.....	Aroma Park
Mohawk.....	Martin Schaeffer.....	Hoyleton
Morgan Hybrids.....	Morgan Bros.....	Galva
National Hybrids.....	National Hyb. Corn Co. of Ill.....	Hudson
Nichols Bros. Hybrids.....	Nichols Bros.....	Hebron
Null Hybrids.....	Null Seed Farms.....	Colchester
Null-Vollmer Hybrids.....	L. H. Vollmer.....	Liberty
Pfeifer Hybrid A-1-40.....	George Pfeifer.....	Arcola
Pioneer Hi-Breds.....	Pioneer Hi-Bred Corn Co.....	Princeton
Producers' Hybrids.....	Producers' Crop Imp. Assn.....	Piper City
Rice White Dent.....	J. R. Rice.....	Blue Mound
Sager Hybrid 33W.....	Troy Sager.....	Kell
Sass Hybrids.....	L. A. Sass.....	Ancona
	U. G. Sass.....	Streator
Seeber Hybrids.....	Seeber Bros.....	Champaign
Shuman Golden Beauty.....	Charles Shuman.....	Sullivan
Sibley Farms Hybrids.....	Sibley Farms.....	Sibley
St. Charles White.....	E. H. Isenberg.....	Kauffman
Station Yellow Dent.....	Ill. Agr. Exp. Sta.....	Urbana
Stewart Hybrids.....	Frank S. Stewart.....	Princeville
Stiegelmeier Hybrids.....	H. L. Stiegelmeier.....	Normal
Schwenk Hybrid 25.....	W. T. Schwenk.....	Edwards
U. S. Hybrid 5.....	G. E. Hulting & Son.....	Geneseo
U. S. Hybrids 13, 44.....	Ill. Agr. Exp. Sta.....	Urbana
U. S. Hybrid 13.....	Clarence Doubet.....	Hanna City
U. S. Hybrids 13, 44.....	Frey Hybrid Corn Co.....	Gilman
U. S. Hybrid 13.....	Huey Seed Co.....	Carthage
U. S. Hybrid 13.....	Macon County Seed Co.....	Decatur
U. S. Hybrid 13.....	George Pfeifer.....	Arcola
U. S. Hybrid 13.....	Edward Wilson.....	Winchester
U. S. Hybrids 14, 35, 63.....	Ferris Seed Co.....	Princeton
U. S. Hybrid 35.....	Producers' Crop Imp. Assn.....	Piper City
U. S. Hybrids 35, 44.....	I. L. & A. G. Sieben.....	Geneseo
U. S. Hybrid 44.....	Gentert Seed Farms.....	Lostant
U. S. Hybrid 45.....	L. A. Sass.....	Ancona
Wilson Hybrids.....	Edward Wilson.....	Winchester
Wilson Yellow Dent.....	Edward Wilson.....	Winchester
Wisconsin Hybrid 645.....	L. A. Huebsch & Son.....	Mundelein
Wisconsin Hybrid 696.....	Nichols Bros.....	Hebron

Table 5.—NORTHEASTERN ILLINOIS: Volo

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
	1941	bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	*Illinois Hybrid 272 (Station)	103.0	102.0	1.0	22.6	98.3	101.6	111.0	108.7
2	*Illinois Hybrid 269 (Station)	108.8	101.8	6.4	26.3	95.0	98.1	110.8	107.6
2	Hoosier-Crost Hybrid 405.	105.1	101.3	3.6	22.6	96.7	99.9	110.2	107.6
4	Funk Hybrid G-16.	101.3	100.1	1.2	25.2	98.3	101.6	108.9	107.1
5	*Holmes Utility Hybrid 19.	104.8	99.0	5.5	27.4	100.0	103.3	107.7	106.6
6	Ioway Supercorn 214-H.	104.3	99.1	5.0	24.2	98.3	101.6	107.8	106.3
7	Nichols Bros. Hybrid N-202.	101.0	99.0	2.0	22.0	98.3	101.6	107.7	106.2
7	Funk Hybrid G-114.	101.8	98.4	3.3	24.2	100.0	103.3	107.1	106.2
9	M-L Hybrid 16 (Moews-Lowe)	98.9	98.5	.4	22.6	98.3	101.6	107.2	105.8
10	*Bear Hybrid OK-112.	100.7	98.3	2.4	24.7	98.3	101.6	107.0	105.7
11	Holmes Utility Hybrid 22.	100.7	98.7	2.0	27.4	93.3	96.4	107.4	104.7
12	*National Hybrid 116.	99.7	98.4	1.3	25.0	93.3	96.4	107.1	104.4
13	*Holmes Utility Hybrid 39.	99.8	95.8	4.0	27.0	100.0	103.3	104.2	104.0
14	*Hoosier-Crost Hybrid F. 138.	97.3	94.6	2.8	23.0	100.0	103.3	102.9	103.0
15	Funk Hybrid G-22.	95.7	95.0	.7	22.6	96.7	99.9	103.4	102.5
15	Pioneer Hi-Bred 330.	96.7	94.9	1.9	25.8	96.7	99.9	103.3	102.5
17	*Illinois Hybrid 697 (Station)	101.4	99.1	2.3	27.6	83.3	86.1	107.8	102.4
18	†Illinois Hybrid 751.	95.6	94.6	1.0	24.7	96.7	99.9	102.9	102.2
19	*Illinois Hybrid 278 (Station)	99.0	96.0	3.0	26.3	91.7	94.7	104.5	102.1
19	Wisconsin Hybrid 645 (Huebsch)	96.6	93.5	3.2	25.0	100.0	103.3	101.7	102.1
21	†Illinois Hybrid 387.	97.5	95.3	2.3	23.0	93.3	96.4	103.7	101.9
22	*Hahn Hybrid 7.	97.2	93.9	3.4	26.3	96.7	99.9	102.2	101.6
22	†Illinois Hybrid 219.	96.0	93.9	2.2	23.0	96.7	99.9	102.2	101.6
24	*Funk Hybrid G-28.	94.8	92.7	2.2	25.0	100.0	103.3	100.9	101.5
25	Hawkeye Hybrid M-10.	96.6	93.6	3.1	23.8	96.7	99.9	101.8	101.3
26	*Pioneer Hi-Bred 353.	94.4	93.4	1.1	23.4	96.7	99.9	101.6	101.2
27	*Hahn Hybrid 9.	96.2	91.7	4.7	27.6	100.0	103.3	99.8	100.7
28	*Iowaleth Hybrid A.	94.1	92.6	1.6	22.8	96.7	99.9	100.8	100.6
29	*Bear Hybrid OK-50.	96.1	92.0	4.3	24.4	98.3	101.6	100.1	100.5
29	*Illinois Hybrid 101 (Station)	93.2	91.4	1.9	23.8	100.0	103.3	99.5	100.5
31	M-L Hybrid 520 (Moews-Lowe)	95.7	91.8	4.1	25.0	98.3	101.6	99.9	100.3
32	Illinois Hybrid 319 (Fritsch)	93.8	91.5	2.4	26.3	98.3	101.6	99.6	100.1
33	Huebsch Hybrid 10.	93.2	90.6	2.8	25.0	98.3	101.6	98.6	99.4
33	Illinois Hybrid 319 (Huebsch)	93.7	90.2	3.7	26.7	100.0	103.3	98.1	99.4
●	Average of 5 hybrid checks.	92.9	90.3	2.8	23.7	95.0	98.1	98.3	98.3
35	M-L Hybrid 13 (Moews-Lowe)	92.2	89.9	2.5	23.8	96.7	99.9	97.8	98.3
36	Iowaleth Hybrid 16.	91.8	89.0	3.1	25.0	98.3	101.6	96.8	98.0
37	*Pioneer Hi-Bred 324.	92.6	88.5	4.4	23.8	96.7	99.9	96.3	97.2
38	M-L Hybrid 14 (Moews-Lowe)	96.5	87.4	9.4	25.5	98.3	101.6	95.1	96.7
39	Wisconsin Hybrid 696 (Nichols)	92.6	87.0	6.1	24.2	98.3	101.6	94.7	96.4
40	*Furr Hybrid 66A.	89.8	86.9	3.2	25.2	96.7	99.9	94.6	95.9
41	*Nichols Bros. Hybrid N-640.	90.1	85.7	4.9	22.8	100.0	103.3	93.3	95.8
42	Hawkeye Hybrid 939.	90.3	87.0	3.7	24.7	93.3	96.4	94.7	95.1
43	Furr Hybrid 67.	88.6	85.4	3.6	24.2	98.3	101.6	92.9	95.1
44	†Illinois Hybrid 1092.	87.1	86.1	1.1	24.2	95.0	98.1	93.7	94.8
45	*Nichols Bros. Hybrid N-606.	86.2	85.0	1.4	23.8	96.7	99.9	92.5	94.4
46	Furr Hybrid 7.	85.0	83.6	1.7	24.2	98.3	101.6	91.0	93.7
47	*Pioneer Hi-Bred 322.	91.9	84.6	7.9	23.8	93.3	96.4	92.1	93.2
48	Pioneer Hi-Bred 370.	84.6	82.3	2.7	21.4	100.0	103.3	89.6	93.0
49	Huebsch Hybrid 15.	86.1	82.7	3.9	23.6	98.3	101.6	90.0	92.9
50	Ferris Hybrid 7E.	87.8	84.7	3.5	27.6	90.0	93.0	92.2	92.4
51	†Illinois Hybrid 99.	88.3	81.8	7.4	23.4	93.3	96.4	89.0	90.9
52	Huebsch Murdock Yellow Dent.	72.7	70.6	2.9	22.0	86.7	89.6	76.8	80.0
	Average of all entries.	95.0	91.9	3.2	24.5	96.8	...	...	...

*Less than 5 bushels of seed sampled. †Hand-pollinated hybrid checks.

A difference of less than 9.5 bushels between total yields of any two entries in this table is not significant.

Table 6.—NORTHEASTERN ILLINOIS: Volo Summaries

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
(A) Average yield of entries grown in 1940 and 1941									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Funk Hybrid G-16.....	93.4	92.7	.7	23.6	75.7	115.4	112.1	112.9
2	Holmes Utility Hybrid 19.....	92.9	89.9	2.9	24.4	70.0	106.7	108.7	108.2
3	Pioneer Hi-Bred 330.....	86.5	85.2	1.5	24.7	76.9	117.2	103.0	106.6
4	Funk Hybrid G-114.....	87.9	85.3	2.9	23.8	76.5	116.6	103.1	106.5
5	Hoosier-Crost Hybrid 405.....	90.0	86.0	4.6	23.1	70.9	108.1	104.0	105.0
6	Nichols Bros. Hybrid N-202.....	88.4	86.9	1.8	22.0	63.2	96.3	105.1	102.9
7	Funk Hybrid G-22.....	84.4	83.7	.9	23.1	68.4	104.3	101.2	102.0
8	Wisconsin Hybrid 645.....	86.0	82.8	3.9	22.7	69.5	105.9	100.1	101.6
9	Pioneer Hi-Bred 353.....	84.5	83.2	1.6	22.0	67.9	103.5	100.6	101.3
10	Furr Hybrid 67.....	81.4	79.6	2.2	23.6	75.7	115.4	96.3	101.1
11	Ioweaith Hybrid 16.....	84.1	82.5	1.9	24.3	67.7	103.2	99.8	100.7
12	Illinois Hybrid 101.....	84.5	82.4	2.6	22.1	67.0	102.1	99.6	100.2
13	Illinois Hybrid 219.....	86.3	84.2	2.5	22.5	61.4	93.6	101.8	99.8
13	Ioweaith Hybrid A.....	84.8	83.2	1.9	21.8	63.9	97.4	100.6	99.8
15	National Hybrid 116.....	85.2	84.4	.9	23.4	60.2	91.8	102.1	99.5
16	M-L Hybrid 520* (Moews-Lowe).....	82.7	80.3	2.7	22.7	68.7	104.7	97.1	99.0
17	M-L Hybrid 14 (Moews-Lowe).....	84.7	80.0	4.8	25.3	68.7	104.7	96.7	98.7
18	M-L Hybrid 13 (Moews-Lowe).....	86.8	83.1	4.4	22.3	58.9	89.8	100.5	97.8
19	Furr Hybrid 7.....	81.1	80.1	1.3	23.3	63.7	97.1	96.9	97.0
20	Pioneer Hi-Bred 324.....	86.1	83.9	2.4	22.4	54.4	82.9	101.5	96.9
21	Pioneer Hi-Bred 322.....	86.9	82.8	4.5	22.1	54.7	83.4	100.1	95.9
22	Illinois Hybrid 1092.....	78.5	77.2	1.6	23.4	67.5	102.9	93.4	95.8
23	Pioneer Hi-Bred 370.....	81.2	79.9	1.5	20.1	53.5	81.6	96.6	92.9
24	Huebsch Murdock Yellow Dent.....	68.4	64.4	6.0	21.7	49.4	75.3	77.9	77.3
Average of all entries.....		84.9	82.7	2.6	22.9	65.6	....	....	....
(B) Average yield of entries grown in 1939, 1940, 1941									
1	Funk Hybrid G-16.....	84.0	83.5	.6	21.0	83.8	111.1	108.2	108.9
2	Pioneer Hi-Bred 330.....	80.7	79.5	1.5	22.3	84.2	111.7	103.0	105.2
3	Funk Hybrid G-114.....	80.9	79.1	1.9	22.1	84.3	111.8	102.5	104.8
4	Wisconsin Hybrid 645.....	80.7	78.5	2.7	20.2	79.7	105.7	101.7	102.7
5	M-L Hybrid 13 (Moews-Lowe).....	82.7	80.2	3.0	21.0	72.6	96.3	103.9	102.0
6	Illinois Hybrid 219.....	79.9	78.5	1.7	21.2	74.2	98.4	101.7	100.9
7	Ioweaith Hybrid A.....	79.0	78.0	1.3	19.9	75.2	99.7	101.0	100.7
8	Pioneer Hi-Bred 324.....	80.1	78.6	1.6	19.9	67.2	89.1	101.8	98.6
9	Pioneer Hi-Bred 322.....	80.4	77.5	3.3	20.2	69.1	91.6	100.4	98.2
10	Illinois Hybrid 1092.....	73.1	72.3	1.1	21.2	77.7	103.1	93.7	96.1
11	Huebsch Murdock Yellow Dent.....	66.0	63.3	4.1	19.6	61.2	81.2	82.0	81.8
Average of all entries.....		78.9	77.2	2.1	20.8	75.4	....	....	....
(C) Average yield of entries grown in 1938, 1939, 1940, 1941									
1	Funk Hybrid G-114.....	79.9	78.5	1.6	24.6	88.1	113.1	108.1	109.4
2	Pioneer Hi-Bred 322.....	79.0	76.4	3.1	22.2	76.1	97.7	105.2	103.3
3	Ioweaith Hybrid A.....	75.3	74.3	1.2	20.9	79.7	102.3	102.3	102.3
4	Huebsch Murdock Yellow Dent.....	63.5	61.3	1.6	21.0	67.8	87.0	84.4	85.1
Average of all entries.....		74.4	72.6	1.9	22.2	77.9	....	....	....

*Formerly M-L Hybrid 20 (Moews-Lowe).

Table 7.—NORTHERN ILLINOIS: Kings

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
1941		bu.	bu.	percl.	percl.	percl.	percl.	percl.	
1	M-L Hybrid 520 (Moews-Lowe).....	99.2	92.8	6.5	23.8	88.3	111.9	113.0	112.7
2	Ioway Supercorn 214-H.....	93.7	90.9	3.0	21.3	93.3	118.2	110.7	112.6
3	M-L Hybrid 16 (Moews-Lowe).....	94.3	92.2	2.2	23.2	85.0	107.7	112.3	111.2
4	*Illinois Hybrid 272 (Station).....	94.1	91.4	2.9	20.0	86.7	109.9	111.3	111.0
5	Sass Hybrid 489 (U. G. Sass).....	93.2	89.3	4.2	23.6	88.3	111.9	108.8	109.6
6	Hulting Hybrid 101.....	90.5	88.6	2.1	21.9	88.3	111.9	107.9	108.9
7	U. S. Hybrid 63 (Ferris).....	89.2	88.3	1.0	22.5	86.7	109.9	107.5	108.1
8	Ioway Supercorn 218-H.....	89.6	86.1	3.9	24.0	90.0	114.1	104.9	107.2
9	*Pioneer Hi-Bred 334.....	91.5	89.7	2.0	24.0	76.7	97.2	109.3	106.3
10	*Illinois Hybrid 269 (Station).....	93.5	85.9	8.1	23.2	86.0	109.0	104.6	105.7
11	Bear Hybrid OK-24.....	90.9	90.0	1.0	23.0	73.3	92.9	109.6	105.4
12	M-L Hybrid 91 (Moews-Lowe).....	89.1	85.8	3.7	21.6	85.0	107.7	104.5	105.3
13	Bear Hybrid OK-175.....	92.9	91.0	2.0	22.2	66.7	84.5	110.8	104.2
14	*Illinois Hybrid 101 (Station).....	86.2	81.9	5.0	22.2	91.7	116.2	99.8	103.9
15	Stiegelmeier Hybrid 701.....	90.5	83.5	7.7	24.5	86.7	109.9	101.7	103.8
16	*Illinois Hybrid 278 (Station).....	90.1	83.9	6.9	23.6	85.0	107.7	102.2	103.6
17	*Pioneer Hi-Bred 307.....	96.4	87.9	8.8	22.5	71.7	90.9	107.1	103.1
18	M-L Hybrid 48 (Moews-Lowe).....	91.8	86.1	6.2	23.0	76.7	97.2	104.9	103.0
19	Funk Hybrid G-37.....	88.8	82.5	7.1	23.6	86.7	109.9	100.5	102.9
20	Illinois Hybrid 751 (Ferris).....	86.3	83.0	3.8	23.6	85.0	107.7	101.1	102.8
21	U. S. Hybrid 44 (Sieben).....	88.8	85.3	3.9	23.6	78.3	99.2	103.9	102.7
22	Hulting Hybrid 380B.....	91.7	89.6	2.3	25.3	65.0	82.4	109.1	102.4
23	M-L Hybrid 13 (Moews-Lowe).....	89.2	85.1	4.6	21.0	76.7	97.2	103.7	102.1
24	Iowaleath Hybrid AQ.....	85.4	81.0	5.1	24.5	88.3	111.9	98.7	102.0
25	†Illinois Hybrid 976.....	85.7	82.4	3.8	23.0	83.3	105.6	100.4	101.7
26	*National Hybrid 125.....	87.3	84.1	3.7	25.8	78.3	99.2	102.4	101.6
26	McCurdy Hybrid 118M.....	86.2	82.9	3.8	24.0	81.7	103.5	101.0	101.6
28	*Holmes Utility Hybrid 19.....	89.2	84.8	4.9	23.8	75.0	95.1	103.3	101.3
28	Furr Hybrid 67.....	83.9	81.9	2.4	24.0	83.3	105.6	99.8	101.3
30	Iowaleath Hybrid B.C.....	85.7	80.1	6.5	25.3	88.3	111.9	97.6	101.2
31	*Illinois Hybrid 697 (Station).....	96.6	91.9	4.9	24.5	53.3	67.6	111.9	100.8
31	McNeily Hybrid 1951A.....	89.2	85.5	4.2	22.8	71.7	90.9	104.1	100.8
33	Iowaleath Hybrid 25R.....	87.7	83.5	4.8	25.5	76.7	97.2	101.7	100.6
33	M-L Hybrid 18 (Moews-Lowe).....	85.9	80.6	6.2	22.2	85.0	107.7	98.2	100.6
33	Hawkeye Hybrid M-10.....	83.8	78.9	5.8	22.2	90.0	114.1	96.1	100.6
36	Funk Hybrid G-16.....	83.3	81.8	1.8	22.8	80.0	101.4	99.6	100.1
37	Fritsch Hybrid 451.....	83.2	78.7	5.4	23.2	88.3	111.9	95.9	99.9
38	M-L Hybrid 115 (Moews-Lowe).....	82.4	80.3	2.5	20.7	83.3	105.6	97.8	99.8
39	Pioneer Hi-Bred 333.....	87.2	82.5	5.4	25.0	76.7	97.2	100.5	99.7
40	*Bear Hybrid OK-111.....	86.9	85.2	2.0	24.0	68.3	86.6	103.8	99.5
41	†Illinois Hybrid 219.....	80.8	77.6	4.0	22.2	90.0	114.1	94.5	99.4
42	M-L Hybrid 14 (Moews-Lowe).....	85.9	78.1	9.1	24.7	88.3	111.9	95.1	99.3
43	*Pioneer Hi-Bred 322.....	86.3	83.6	3.1	19.9	71.7	90.9	101.8	99.1
44	Hawkeye Hybrid M-14.....	83.1	78.3	5.8	24.0	86.7	109.9	95.4	99.0
45	*Hoosier-Crost Hybrid F.139.....	80.8	76.8	5.0	26.6	90.0	114.1	93.5	98.7
46	Funk Hybrid G-72.....	87.8	79.3	9.7	24.5	81.7	103.5	96.6	98.3
46	Furr Hybrid 78.....	80.1	78.7	1.8	21.6	83.3	105.6	95.9	98.3
48	*Holmes Utility Hybrid 29.....	88.2	79.1	10.3	26.3	81.7	103.5	96.3	98.1
49	*Funk Hybrid G-67.....	84.5	80.4	4.8	25.0	76.7	97.2	97.9	97.7
49	Sass Hybrid 60 (L. A. Sass).....	84.0	80.4	4.3	24.7	76.7	97.2	97.9	97.7
51	Holmes Utility Hybrid 22.....	84.9	81.9	3.5	26.6	71.7	90.9	99.8	97.6
52	†Illinois Hybrid 751.....	80.5	78.2	2.9	24.3	81.7	103.5	95.2	97.3
53	Hahn Hybrid 150A.....	84.0	79.5	5.4	26.6	76.7	97.2	96.8	96.9
54	Morgan Hybrid M-52.....	86.4	80.4	7.0	24.7	70.0	88.7	97.9	95.6
54	●Average of 5 hybrid checks.....	79.0	76.0	3.9	23.0	81.7	103.5	92.5	95.3
55	McNeily Hybrid 1977.....	83.5	79.1	5.3	24.7	70.0	88.7	96.3	94.4
56	*Durst Hybrid 31.....	72.1	70.7	2.0	23.4	90.0	114.1	86.1	93.1
57	Illinois Hybrid 350 (Ferris).....	84.6	80.5	4.8	25.0	56.7	71.9	98.0	91.5
57	Furr Hybrid 77.....	79.3	70.7	10.9	25.3	85.0	107.7	86.1	91.5
59	Funk Hybrid G-212.....	81.1	75.1	7.4	26.5	70.0	88.7	91.5	90.8
59	Seeber Hybrid 50.....	79.0	75.1	4.9	24.7	70.0	88.7	91.5	90.8
61	Maland Yellow Dent.....	83.1	77.6	6.6	21.6	61.7	78.2	94.5	90.4
62	†Illinois Hybrid 99.....	75.8	71.3	6.0	22.5	78.3	99.2	86.8	89.9
63	*Pioneer Hi-Bred 314.....	85.4	75.7	11.4	24.0	65.0	82.4	92.2	89.8
64	*Morgan Hybrid M-26.....	79.7	74.0	7.2	26.6	68.3	86.6	90.1	89.2
65	Illinois Hybrid 350 (Sieben).....	83.1	79.4	4.4	26.5	50.0	63.4	96.7	88.4
66	Furr Hybrid 76.....	72.9	71.7	1.7	23.4	71.7	90.9	87.3	88.2
67	†Illinois Hybrid 1092.....	72.2	70.3	2.6	23.0	75.0	95.1	85.6	88.0
Average of all entries.....		86.3	82.1	4.8	23.7	78.9	....	....	....

*Less than 5 bushels of seed sampled. †Hand-pollinated hybrid checks. †Average of 5 plots instead of 6.

A difference of less than 7.3 bushels between total yields of any two entries in this table is not significant.

Table 8.—NORTHERN ILLINOIS: Kings Summaries

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
(A) Average yields of entries grown in 1940 and 1941									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Ioway Supercorn 214-H.....	101.1	95.9	5.0	21.1	96.7	111.4	107.5	108.5
2	U. S. Hybrid 63.....	98.1	94.3	3.5	22.3	92.9	107.0	105.7	106.0
3	Bear Hybrid OK-24.....	101.0	97.2	3.5	22.1	83.7	96.4	109.0	105.9
4	Iowaleth Hybrid 25R.....	101.4	96.4	4.9	24.6	85.9	99.0	108.1	105.8
5	Pioneer Hi-Bred 307.....	103.7	96.0	7.5	23.1	82.4	94.9	107.6	104.4
6	Hahn Hybrid 150A.....	100.5	94.0	6.3	26.3	84.9	97.8	105.4	103.5
7	Funk Hybrid G-37.....	97.2	90.9	6.5	23.7	92.9	107.0	101.9	103.2
8	Illinois Hybrid 751.....	95.7	90.7	5.0	23.8	91.2	105.1	101.7	102.6
9	Pioneer Hi-Bred 322.....	97.1	93.1	4.0	20.3	83.9	96.7	104.4	102.5
10	U. S. Hybrid 44 (Sieben).....	100.3	93.4	6.6	24.0	82.7	95.3	104.7	102.4
11	M-L Hybrid 520* (Moews-Lowe)...	97.0	88.4	9.0	27.9	93.2	107.4	99.1	101.2
12	Furr Hybrid 67.....	93.4	88.3	5.2	23.7	90.2	103.9	99.0	100.2
13	Morgan Hybrid M-52.....	97.3	91.4	6.2	23.7	80.5	92.7	102.5	100.1
14	Illinois Hybrid 976.....	93.2	87.5	5.9	23.0	90.7	104.5	98.1	99.7
15	M-L Hybrid 14 (Moews-Lowe).....	92.3	85.3	7.7	24.5	94.2	108.5	95.6	98.8
16	Seeber Hybrid 50.....	94.0	88.3	5.9	25.6	84.0	96.8	99.0	98.5
17	Furr Hybrid 78.....	91.5	85.5	6.0	22.2	88.7	102.2	95.9	97.5
18	Illinois Hybrid 350.....	94.4	90.1	4.6	24.3	75.2	86.6	101.0	97.4
19	Pioneer Hi-Bred 314.....	96.5	88.1	9.0	23.1	79.5	91.6	98.8	97.0
20	Furr Hybrid 77.....	89.9	79.7	11.3	24.6	92.0	106.0	89.4	93.6
21	M-L Hybrid 13 (Moews-Lowe).....	92.6	76.8	16.7	21.6	88.4	101.8	86.1	90.0
22	Maland Yellow Dent.....	83.3	70.1	15.9	22.5	74.9	86.3	78.6	80.5
Average of all entries.....		96.0	89.2	7.1	23.5	86.8	....	....	....
(B) Average yields of entries grown in 1939, 1940, 1941									
1	Pioneer Hi-Bred 307.....	100.2	94.7	5.4	20.8	88.2	98.7	108.5	106.1
2	Funk Hybrid G-37.....	95.4	90.7	5.0	21.1	95.2	106.5	103.9	104.6
3	Illinois Hybrid 751.....	94.5	91.1	3.4	21.2	93.8	104.9	104.4	104.5
4	Pioneer Hi-Bred 322.....	95.0	91.8	3.2	18.7	88.6	99.1	105.2	103.7
5	Pioneer Hi-Bred 314.....	96.1	90.4	6.1	20.3	86.0	96.2	103.6	101.8
6	Morgan Hybrid M-52.....	93.8	89.7	4.3	21.4	84.7	94.7	102.8	100.8
6	M-L Hybrid 14 (Moews-Lowe).....	90.9	86.1	5.3	21.6	96.1	107.5	98.6	100.8
8	Furr Hybrid 77.....	91.1	84.2	7.6	22.0	94.0	105.1	96.5	98.7
9	M-L Hybrid 13 (Moews-Lowe).....	92.3	81.7	11.2	19.8	92.2	103.1	93.6	96.0
10	Maland Yellow Dent.....	81.0	72.1	10.6	20.6	74.9	83.8	82.6	82.9
Average of all entries.....		93.0	87.3	6.2	20.8	89.4	....	....	....
(C) Average yields of entries grown in 1938, 1939, 1940, 1941									
1	Pioneer Hi-Bred 322.....	94.5	92.0	2.5	18.5	85.7	101.3	105.0	104.1
1	Illinois Hybrid 751.....	92.7	90.1	2.7	21.1	91.2	107.8	102.9	104.1
3	M-L Hybrid 14 (Moews-Lowe).....	92.4	88.5	4.3	21.8	92.5	109.3	101.0	103.1
4	Pioneer Hi-Bred 314.....	95.3	90.8	4.9	19.7	84.3	99.6	103.7	102.7
5	Morgan Hybrid M-52.....	94.2	91.1	3.2	20.9	82.6	97.6	104.0	102.4
6	Maland Yellow Dent.....	79.6	72.8	8.1	19.9	71.2	84.2	83.1	83.4
Average of all entries.....		91.5	87.6	4.3	20.3	84.6	....	....	....
(D) Average yields of entries grown in 1937, 1938, 1939, 1940, 1941									
1	Pioneer Hi-Bred 322.....	94.8	92.7	2.1	18.8	77.7	102.9	107.5	106.4
2	Illinois Hybrid 751.....	90.4	88.2	2.2	20.9	85.8	113.6	102.3	105.1
3	Pioneer Hi-Bred 314.....	94.3	90.5	4.0	20.1	74.2	98.3	105.0	103.3
4	Maland Yellow Dent.....	78.8	73.4	6.6	20.3	64.1	84.9	85.2	85.1
Average of all entries.....		89.6	86.2	3.7	20.0	75.5	....	....	....

*Formerly M-L Hybrid 20 (Moews-Lowe).

Table 9.—WEST NORTH-CENTRAL ILLINOIS: Cambridge

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
1941									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	*Holmes Utility Hybrid 29.....	114.5	110.8	3.2	22.7	88.3	102.9	114.6	111.7
2	Pioneer Hi-Bred 313.....	131.4	124.6	5.2	20.7	50.0	58.3	128.8	111.2
3	†Illinois Hybrid 960.....	113.3	110.8	2.2	21.9	80.0	93.2	114.6	109.3
4	Null Hybrid N-95.....	109.8	105.6	3.8	23.3	93.3	108.7	109.2	109.1
5	Holmes Utility Hybrid 46.....	112.3	106.9	4.8	20.1	88.3	102.9	110.5	108.6
6	Null Hybrid N-54.....	110.1	103.5	6.0	23.1	91.7	106.9	107.0	107.0
7	*Holmes Utility Hybrid 69.....	109.9	103.7	5.6	21.9	90.0	104.9	107.2	106.6
8	†Illinois Hybrid 201.....	111.8	104.4	6.6	21.3	86.7	101.0	108.0	106.3
8	†Illinois Hybrid 972.....	109.4	104.4	4.6	21.9	86.7	101.0	108.0	106.3
10	Ioway Supercorn 124-H.....	111.6	104.3	6.5	21.3	86.7	101.0	107.9	106.2
11	U. S. Hybrid 45 (L. A. Sass).....	111.8	107.8	3.6	21.3	76.7	89.4	111.5	106.0
12	*Sass Hybrid 91 (U. G. Sass).....	109.7	104.4	4.8	21.0	85.0	99.1	108.0	105.8
13	Iowaleth Hybrid 25R.....	107.6	104.2	3.2	21.3	85.0	99.1	107.8	105.6
14	U. S. Hybrid 13 (C. Doubet).....	105.9	102.7	3.0	22.7	88.3	102.9	106.2	105.4
14	Null Hybrid N-16.....	106.5	102.1	4.1	21.3	90.0	104.9	105.6	105.4
16	*Funk Hybrid G-73.....	105.8	102.6	3.0	23.7	88.3	102.9	106.1	105.3
17	Crow Hybrid 608.....	110.8	105.9	4.4	21.3	78.3	91.3	109.5	105.0
18	Bear Hybrid OK-175.....	109.5	105.7	3.5	21.0	78.3	91.3	109.3	104.8
19	Hulting Hybrid 380B.....	108.3	103.1	4.8	21.6	85.0	99.1	106.6	104.7
20	Illinois Hybrid 350 (Ferris).....	109.8	105.6	3.8	23.3	76.7	89.4	109.2	104.3
21	Illinois Hybrid 350 (Sieben).....	110.7	104.3	5.8	21.9	80.0	93.2	107.9	104.2
	●Average of 5 hybrid checks.....	109.0	102.9	5.7	22.1	83.3	97.1	106.6	104.2
22	Bear Hybrid OK-66.....	103.9	101.8	2.0	21.3	85.0	99.1	105.3	103.8
23	U. S. Hybrid 14 (Ferris).....	104.9	100.9	3.8	21.3	86.7	101.0	104.3	103.5
23	Iowaleth Hybrid AQR.....	104.5	98.9	5.4	24.2	91.7	106.9	102.3	103.5
23	Hulting Hybrid 101.....	102.8	98.3	4.4	21.0	93.3	108.7	101.7	103.5
26	U. S. Hybrid 5 (Hulting).....	104.9	100.1	4.6	20.7	88.3	102.9	103.5	103.4
27	McCurdy Hybrid 124M.....	102.5	97.8	4.6	21.9	91.7	106.9	101.1	102.6
28	Bear Hybrid OK-69.....	102.2	98.3	3.8	20.1	90.0	104.9	101.7	102.5
29	†Illinois Hybrid 374.....	109.4	104.5	4.5	23.7	73.3	85.4	108.1	102.4
29	*M-L Hybrid 290 (Moews-Lowe).....	107.3	97.0	9.6	21.9	93.3	108.7	100.3	102.4
31	Illinois Hybrid 944 (Hulting).....	106.0	97.7	7.8	20.7	90.0	104.9	101.0	102.0
32	Hawkeye Hybrid H.P.....	102.7	97.6	5.0	21.9	88.3	102.9	100.9	101.4
33	Funk Hybrid G-212.....	104.0	98.6	5.2	23.3	85.0	99.1	102.0	101.3
34	M-L Hybrid 120 (Moews-Lowe).....	109.3	102.3	6.4	21.9	75.0	87.4	105.8	101.2
35	*Pioneer Hi-Bred 307.....	112.2	100.8	10.2	20.4	78.3	91.3	104.2	101.0
36	Null Hybrid N-48.....	105.3	96.0	8.8	22.7	90.0	104.9	99.3	100.7
37	Ferris Hybrid 8.....	102.3	94.0	8.1	21.0	95.0	110.7	97.2	100.6
38	*Funk Hybrid G-75.....	100.1	96.3	3.8	22.5	88.3	102.9	99.6	100.4
39	Sass Hybrid 305 (U. G. Sass).....	100.5	94.9	5.6	21.9	91.7	106.9	98.1	100.3
40	U. S. Hybrid 35 (Sieben).....	98.2	93.5	4.8	21.9	95.0	110.7	96.7	100.2
41	Morgan Hybrid M-546.....	98.0	95.3	2.8	21.9	90.0	104.9	98.5	100.1
42	Hawkeye Hybrid M-14.....	97.0	95.1	2.0	20.7	90.0	104.9	98.3	100.0
43	Illinois Hybrid 201 (C. Doubet).....	102.5	96.1	6.2	21.3	86.7	101.0	99.4	99.8
43	*Stewart Hybrid S-24.....	105.7	94.9	10.2	22.7	90.0	104.9	98.1	99.8
45	Illinois Hybrid 21 (Munson).....	100.4	94.6	5.8	21.9	90.0	104.9	97.8	99.6
45	Ioway Supercorn 218-H.....	102.1	91.5	10.4	23.7	98.3	114.6	94.6	99.6
47	M-L Hybrid 500 (Moews-Lowe).....	96.9	94.4	2.6	22.7	90.0	104.9	97.6	99.4
48	U. S. Hybrid 44 (Frey).....	98.9	94.9	4.0	20.1	88.3	102.9	98.1	99.3
49	U. S. Hybrid 44 (Dyar).....	100.6	95.8	4.8	22.7	85.0	99.1	99.1	99.1
49	Seeber Hybrid 11A.....	99.6	95.8	3.8	21.9	85.0	99.1	99.1	99.1
51	M-L Hybrid 850 (Moews-Lowe).....	103.4	92.9	10.2	23.7	91.7	106.9	96.1	98.8
52	Funk Hybrid G-72.....	108.4	97.1	10.4	22.5	80.0	93.2	100.4	98.6
53	Hahn Hybrid 150A.....	101.3	93.8	7.4	21.9	86.7	101.0	97.0	98.0
54	M-L Hybrid 18 (Moews-Lowe).....	98.7	94.3	4.5	20.4	85.0	99.1	97.5	97.9
55	Crow Hybrid 607.....	105.9	95.3	10.0	22.5	81.7	95.2	98.5	97.7
55	Crow Hybrid 804.....	99.6	94.7	4.9	21.3	83.3	97.1	97.9	97.7
57	Iowaleth Hybrid 29A.....	100.0	94.1	5.9	23.7	83.3	97.1	97.3	97.3
58	*National Hybrid 129A.....	96.6	92.2	4.6	23.1	88.3	102.9	95.3	97.2
59	Sass Hybrid 12.....	101.5	91.4	10.0	22.5	88.3	102.9	94.5	96.6
60	U. S. Hybrid 44.....	100.9	90.4	10.4	21.9	90.0	104.9	93.5	96.4
61	Null Hybrid N-627.....	96.9	91.4	5.7	21.3	85.0	99.1	94.5	95.7
62	Morgan Hybrid M-52.....	98.4	94.8	3.7	22.9	75.0	87.4	98.0	95.4
63	Morgan Hybrid M-52A.....	97.8	93.9	4.0	22.9	76.7	89.4	97.1	95.2
63	U. S. Hybrid 35 (Ferris).....	103.6	89.0	14.1	22.9	90.0	104.9	92.0	95.2
65	*Stewart Hybrid S-22.....	94.3	88.3	6.4	21.9	90.0	104.9	91.3	94.7
66	U. S. Hybrid 44 (Gentert).....	100.0	90.0	10.0	21.3	85.0	99.1	93.1	94.6
66	M-L Hybrid 523 (Moews-Lowe).....	99.5	86.2	13.4	22.5	95.0	110.7	89.1	94.5
68	Stiegelmeier Hybrid 702.....	89.4	85.3	4.6	23.7	95.0	110.7	88.2	93.8
69	Illinois Hybrid 212 (Monier).....	93.6	85.8	8.3	22.5	91.7	106.9	88.7	93.3
70	U. S. Hybrid 35 (P.C.I.A.).....	94.1	85.0	9.7	21.3	91.7	106.9	87.9	92.7
71	*Bear Hybrid OK-118.....	96.7	88.0	9.0	21.9	81.7	95.2	91.0	92.1
72	Illinois Hybrid 21 (Frey).....	92.3	83.6	9.4	21.9	88.3	102.9	86.5	90.6
73	Ferris Hybrid 44-1.....	92.4	85.6	7.4	23.7	80.0	93.2	88.5	89.7
74	*Pioneer Hi-Bred 332.....	90.5	78.9	12.8	23.7	96.7	112.7	81.6	89.4
75	Stiegelmeier Hybrid 703.....	90.4	81.0	10.4	24.7	86.7	101.0	83.8	88.1
76	*Morgan Hybrid M-26.....	90.6	82.3	9.2	23.3	81.7	95.2	85.1	87.6
77	Krug.....	97.8	90.8	7.2	21.9	50.0	58.3	93.9	85.9
78	Morgan Hybrid M-75.....	82.4	77.5	6.0	24.2	78.3	91.3	80.1	82.0
	Average of all entries.....	103.0	96.7	6.2	22.1	85.8	....	....	....

*Less than 5 bushels of seed sampled. †Hand-pollinated hybrid checks.

A difference of less than 6.7 bushels between total yields of any two entries in this table is not significant.

Table 10.—WEST NORTH-CENTRAL ILLINOIS: Cambridge Summaries

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
(A) Average yields of entries grown in 1940 and 1941									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	perct.
1	Pioneer Hi-Bred 313	119.8	112.4	6.3	21.2	72.0	81.0	122.2	111.9
2	Illinois Hybrid 960	106.0	103.7	2.1	20.6	86.0	96.7	112.7	108.7
3	Ioway Supercorn 124-H*	104.6	98.9	5.3	19.2	91.9	103.4	107.5	106.5
4	M-L Hybrid 500 (Moews-Lowe)	98.0	95.7	2.4	21.9	95.0	106.9	104.0	104.7
5	Iowest Hybrid 25R	101.7	97.3	4.4	19.7	89.0	100.1	105.8	104.4
6	Seeber Hybrid 11-A	98.7	95.8	2.9	21.4	91.0	102.4	104.1	103.7
7	Funk Hybrid G-212	99.5	96.1	3.4	22.1	88.5	99.6	104.5	103.3
8	U. S. Hybrid 14 (Ferris)	99.1	95.4	3.7	20.2	86.9	97.8	103.7	102.2
9	Hahn Hybrid 150A	99.0	93.5	5.5	21.4	92.4	103.9	101.6	102.2
10	Morgan Hybrid M-52A	99.7	96.1	3.6	21.4	83.9	94.4	104.5	102.0
10	Illinois Hybrid 201	99.7	93.2	6.5	19.5	92.4	103.9	101.3	102.0
12	Sass Hybrid 305	96.1	92.3	3.9	20.1	94.4	106.2	100.3	101.8
13	Pioneer Hi-Bred 307	102.6	94.3	7.9	19.5	87.2	98.1	102.5	101.4
14	Illinois Hybrid 350	100.9	96.4	4.4	19.9	79.2	89.1	104.8	100.9
15	Ioway Supercorn 218-H	95.3	88.8	6.6	20.5	98.7	111.0	96.5	100.1
16	Illinois Hybrid 374	98.0	94.3	3.7	21.8	81.7	91.9	102.5	99.9
17	U. S. Hybrid 5 (Hulting)	94.0	90.2	4.0	19.0	92.2	103.7	98.0	99.4
18	U. S. Hybrid 35	95.4	89.2	6.4	20.0	94.4	106.2	97.0	99.3
19	M-L Hybrid 523 (Moews-Lowe)	97.8	88.6	9.3	20.4	95.5	107.4	96.3	99.1
20	Pioneer Hi-Bred 332	96.6	87.6	9.6	22.6	96.9	109.0	95.2	98.7
21	U. S. Hybrid 44	93.5	89.1	4.6	20.2	90.9	102.3	96.9	98.3
22	M-L Hybrid 120 (Moews-Lowe)	96.3	90.8	5.6	20.8	85.0	95.6	98.7	97.9
23	Morgan Hybrid M-52	96.2	91.4	5.0	20.8	82.0	92.2	99.4	97.6
24	Illinois Hybrid 21	92.9	87.1	6.2	20.5	93.6	105.3	94.7	97.4
25	Stewart Hybrid S-22	91.8	86.4	5.8	20.2	94.5	106.3	93.9	97.0
26	Crow Hybrid 607	93.2	86.0	7.4	21.5	89.9	101.1	93.5	95.4
27	Illinois Hybrid 212 (Monier)	87.0	79.8	8.3	19.5	94.9	106.8	86.7	91.7
28	Stiegelmeier Hybrid 702	82.1	79.3	3.3	21.6	95.5	107.4	86.2	91.5
29	Krug	81.4	76.4	5.8	20.9	62.5	70.3	83.0	79.8
Average of all entries		97.1	91.1	5.3	20.6	88.9	....	....	....
(B) Average yields of entries grown in 1939, 1940, 1941									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	perct.
1	Pioneer Hi-Bred 313	123.4	118.0	4.5	20.3	79.0	89.5	116.3	109.6
2	Illinois Hybrid 960	111.8	109.7	1.9	19.3	86.3	97.7	108.1	105.5
3	Seeber Hybrid 11A	107.8	105.6	2.2	20.4	92.7	105.0	104.0	104.3
4	Illinois Hybrid 201	108.7	102.7	5.7	18.9	94.9	107.5	101.2	102.8
5	Pioneer Hi-Bred 307	110.1	103.9	5.7	18.6	89.1	100.9	102.4	102.0
6	Funk Hybrid G-212	105.6	103.0	2.5	20.5	90.3	102.3	101.5	101.7
7	Sass Hybrid 305	104.7	101.4	3.2	19.1	94.2	106.7	99.9	101.6
8	U. S. Hybrid 14 (Ferris)	106.2	102.7	3.3	19.3	89.2	101.0	101.2	101.2
9	Morgan Hybrid M-52A	106.7	103.6	3.0	20.1	86.2	97.6	102.1	101.0
10	M-L Hybrid 523 (Moews-Lowe)	106.1	99.4	6.7	19.7	96.3	109.1	97.9	100.7
11	M-L Hybrid 120 (Moews-Lowe)	105.2	101.4	3.9	19.4	88.3	100.0	99.9	99.9
12	Illinois Hybrid 374	106.1	102.2	3.6	20.0	85.8	97.2	100.7	99.8
13	U. S. Hybrid 44	103.6	100.1	3.5	18.9	91.0	103.1	98.6	99.7
13	U. S. Hybrid 5	102.8	100.1	2.8	18.2	90.8	102.8	98.6	99.7
15	Morgan Hybrid M-52	100.7	97.4	3.5	19.4	84.7	95.9	96.0	96.0
16	Stiegelmeier Hybrid 702	92.4	90.2	2.5	19.8	95.7	108.4	88.9	93.8
17	Krug	88.6	83.9	5.3	20.0	67.3	76.2	82.7	81.1
Average of all entries		105.3	101.5	3.8	19.5	88.3	....	....	....
(C) Average yields of entries grown in 1938, 1939, 1940, 1941									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	perct.
1	Pioneer Hi-Bred 313	118.5	114.5	3.4	19.8	70.5	88.3	114.8	108.2
2	Illinois Hybrid 960	106.2	104.5	1.6	18.3	79.6	99.7	104.8	103.5
3	M-L Hybrid 523 (Moews-Lowe)	104.5	98.9	5.6	18.7	90.4	113.3	99.2	102.7
4	Pioneer Hi-Bred 307	107.7	102.5	4.8	17.9	81.5	102.1	102.8	102.6
5	Funk Hybrid G-212	102.6	100.6	2.0	19.4	83.1	104.1	100.9	101.7
6	U. S. Hybrid 44	103.0	100.2	2.8	18.0	83.7	104.9	100.5	101.6
7	M-L Hybrid 120 (Moews-Lowe)	102.4	99.4	3.0	18.4	84.4	105.8	99.7	101.2
8	Morgan Hybrid M-52	98.0	95.2	3.0	18.2	81.9	102.6	95.5	97.3
9	Krug	85.5	81.9	4.1	19.0	63.3	79.3	82.1	81.4
Average of all entries		103.2	99.7	3.4	18.6	79.8	....	....	....
(D) Average yields of entries grown in 1937, 1938, 1939, 1940, 1941									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	perct.
1	Pioneer Hi-Bred 307	111.4	107.1	4.0	17.9	77.8	107.0	105.0	105.5
2	Illinois Hybrid 960	109.0	107.6	1.3	18.5	72.7	100.0	105.5	104.1
2	Funk Hybrid G-212	106.8	105.1	1.6	19.1	78.1	107.4	103.0	104.1
4	U. S. Hybrid 44	106.6	104.4	2.2	17.8	77.1	106.1	102.4	103.3
5	Morgan Hybrid M-52	103.3	101.0	2.4	18.3	75.1	103.3	99.0	100.1
6	Krug	89.9	86.9	3.4	19.1	55.6	76.5	85.2	83.0
Average of all entries		104.5	102.0	2.5	18.5	72.7	....	....	....

*Formerly Ioway Supercorn 123-H.

Table 11.—EAST NORTH-CENTRAL ILLINOIS: Reddick

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
	1941	bu.	bu.	percl.	percl.	percl.	percl.	percl.	
1	Bear Hybrid OK-66.....	91.5	87.7	4.2	20.6	95.0	111.8	107.1	108.3
2	Sibley Farms Hybrid 753B.....	90.5	88.1	2.6	17.5	93.3	109.8	107.6	108.2
3	Crow Hybrid 607.....	93.2	88.7	4.8	18.9	90.0	105.9	108.3	107.7
4	Dyar Hybrid D81.....	93.7	91.1	2.8	18.7	81.7	96.1	111.2	107.4
5	*Pioneer Hi-Bred 332.....	93.3	90.3	3.2	21.0	80.0	94.1	110.3	106.3
6	Pioneer Hi-Bred 313.....	98.1	92.4	5.8	18.9	73.3	86.2	112.8	106.2
7	Holmes Utility Hybrid 46.....	89.2	86.8	2.7	18.0	90.0	105.9	106.0	106.0
8	Holmes Utility Hybrid 35.....	90.3	87.8	2.8	17.2	86.7	102.0	107.2	105.9
9	Pioneer Hi-Bred 333.....	89.6	86.3	3.7	17.7	90.0	105.9	105.4	105.5
9	*Sass Hybrid 91 (U. G. Sass).....	87.4	84.7	3.1	18.2	95.0	111.8	103.4	105.5
11	Crow Hybrid 608.....	88.4	86.1	2.6	17.4	90.0	105.9	105.1	105.3
12	Ferris Hybrid 44-1.....	89.6	87.2	2.7	18.6	85.0	100.0	106.5	104.9
12	*Pioneer Hi-Bred 334.....	89.7	86.7	3.4	18.1	86.7	102.0	105.9	104.9
14	*Sass Hybrid 12 (L. A. Sass).....	88.1	85.1	3.4	18.6	90.0	105.9	103.9	104.4
15	*Funk Hybrid G-75.....	87.1	84.9	2.5	19.1	90.0	105.9	103.7	104.3
16	Hulting Hybrid 101.....	87.5	84.8	3.1	17.2	88.3	103.9	103.5	103.6
17	Schwenk Hybrid 25.....	89.4	85.9	3.9	16.9	83.3	98.0	104.9	103.2
18	U. S. Hybrid 44 (Frey).....	90.2	88.0	2.4	18.2	76.7	90.2	107.4	103.1
18	M-L Hybrid 523 (Moews-Lowe).....	85.0	82.6	2.8	17.7	93.3	109.8	100.9	103.1
20	Iowaleth Hybrid 25R.....	87.7	85.2	2.8	18.6	85.0	100.0	104.0	103.0
21	Bear Hybrid OK-69.....	85.2	83.3	2.2	18.0	90.0	105.9	101.7	102.8
22	†Illinois Hybrid 972.....	90.2	86.2	4.4	18.0	80.0	94.1	105.3	102.5
22	*Holmes Utility Hybrid 29.....	87.1	83.0	4.7	18.2	90.0	105.9	101.3	102.5
24	†Illinois Hybrid 374.....	88.7	85.5	3.6	18.4	81.7	96.1	104.4	102.3
24	†Illinois Hybrid 201.....	85.6	83.4	2.6	17.2	88.3	103.9	101.8	102.3
26	Iowaleth Hybrid AQh.....	85.6	82.0	4.2	17.7	91.7	107.9	100.1	102.1
27	*Pioneer Hi-Bred 307.....	87.4	84.5	3.3	17.7	83.3	98.0	103.2	101.9
28	Crow Hybrid 633.....	84.4	80.9	4.1	18.6	93.3	109.8	98.8	101.6
29	Funk Hybrid G-72.....	89.6	83.0	7.4	18.8	86.7	102.0	101.3	101.5
30	Bear Hybrid OK-72.....	82.3	81.0	1.6	19.3	91.7	107.9	98.9	101.2
31	M-L Hybrid 514 (Moews-Lowe).....	83.2	80.8	2.9	17.8	91.7	107.9	98.7	101.0
●	Average of 5 hybrid checks.....	87.0	83.4	4.1	18.2	82.3	96.9	101.8	100.6
32	M-L Hybrid 560 (Moews-Lowe).....	83.8	81.3	3.0	18.6	88.3	103.9	99.3	100.5
33	Crow Hybrid 804.....	87.2	83.4	4.4	19.2	81.7	96.1	101.8	100.4
34	U. S. Hybrid 14 (Ferris).....	86.4	83.8	3.0	18.7	80.0	94.1	102.3	100.3
35	*Funk Hybrid G-73.....	85.0	81.4	4.2	19.1	86.7	102.0	99.4	100.1
36	Funk Hybrid G-212.....	90.0	82.8	8.0	18.7	81.7	96.1	101.1	99.9
37	U. S. Hybrid 13 (Frey).....	84.7	80.1	5.4	20.0	90.0	105.9	97.8	99.8
37	*Illinois Hybrid 262 (Station).....	82.2	79.5	3.3	18.0	91.7	107.9	97.1	99.8
39	Hoosier-Crost Hybrid 668-L.....	82.7	80.1	3.2	19.5	86.7	102.0	97.8	98.9
40	†Illinois Hybrid 960.....	87.5	83.7	4.3	19.1	75.0	88.2	102.2	98.7
41	Kelly Hybrid K-100.....	86.1	81.6	5.2	18.4	80.0	94.1	99.6	98.2
42	Farmcraft Hybrid 66.....	79.6	78.8	1.0	19.1	88.3	103.9	96.2	98.1
43	Illinois Hybrid 21 (Dyar).....	82.9	78.3	5.6	18.9	88.3	103.9	95.6	97.7
44	†U. S. Hybrid 44.....	82.9	78.1	5.8	18.3	86.7	102.0	95.4	97.1
45	Farmcraft Hybrid 42.....	78.4	77.6	1.0	18.7	88.3	103.9	94.7	97.0
46	*National Hybrid 125.....	84.1	78.6	6.5	19.1	83.3	98.0	96.0	96.5
47	Sass Hybrid 50 (L. A. Sass).....	84.9	82.4	3.0	19.5	68.3	80.4	100.6	95.6
48	Illinois Hybrid 21 (Frey).....	79.9	75.5	5.5	18.7	88.3	103.9	92.2	95.1
49	Sass Hybrid 305 (U. G. Sass).....	81.1	75.0	7.5	18.6	88.3	103.9	91.6	94.7
49	*Hulting Hybrid 380B.....	84.5	74.5	11.8	19.0	90.0	105.9	91.0	94.7
51	Stiegelmeier Hybrid 380.....	76.9	74.6	3.0	18.2	88.3	103.9	91.1	94.3
52	Stiegelmeier Hybrid 702.....	77.3	73.2	5.3	20.6	90.0	105.9	89.4	93.5
53	Ferris Hybrid 10.....	83.5	75.6	9.5	19.8	81.7	96.1	92.3	93.3
54	*Hahn Hybrid 89.....	78.6	73.3	6.7	19.1	88.3	103.9	89.5	93.1
55	Kelly Hybrid K-42.....	78.0	74.5	4.5	17.2	83.3	98.0	91.0	92.8
56	Crow Hybrid 501 (W).....	82.3	79.5	3.4	18.9	60.0	70.6	97.1	90.5
57	*Illinois Hybrid 258B (Station).....	82.6	74.1	10.3	21.8	76.7	90.2	90.5	90.4
57	Illinois Hybrid 751 (Coldwater).....	70.6	69.8	1.2	18.9	90.0	105.9	85.2	90.4
59	*Miller Hybrid 1050 (W).....	76.9	75.2	2.2	19.2	68.3	80.4	91.8	89.0
60	Krug.....	79.0	75.8	4.0	18.6	51.7	60.8	92.6	84.7
	Average of all entries.....	85.5	81.9	4.1	18.6	85.0	....	....	....

*Less than 5 bushels of seed sampled.

†Hand-pollinated hybrid checks.

A difference of less than 8.6 bushels between total yields of any two entries in this table is not significant.

Table 12.—EAST NORTH-CENTRAL ILLINOIS: Reddick Summaries

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
(A) Average yields of entries grown in 1940 and 1941									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Pioneer Hi-Bred 313.....	94.3	90.3	4.1	21.9	84.7	93.7	111.9	107.4
1	Pioneer Hi-Bred 334.....	90.0	87.9	2.3	19.2	92.9	102.8	108.9	107.4
3	Iowest Hybrid 25R.....	87.4	86.1	1.5	19.9	91.5	101.2	106.7	105.3
4	Pioneer Hi-Bred 333.....	86.9	84.7	2.4	19.0	95.0	105.1	105.0	105.0
5	Pioneer Hi-Bred 332.....	87.6	85.7	2.0	23.8	89.5	99.0	106.2	104.4
6	Illinois Hybrid 972.....	87.5	85.3	2.4	20.3	90.0	99.6	105.7	104.2
7	Hoosier-Crost Hybrid 668-L.....	85.2	83.4	2.3	21.3	92.9	102.8	103.3	103.2
8	U. S. Hybrid 14 (Ferris).....	86.1	83.7	2.8	20.3	89.5	99.0	103.7	102.5
9	Crow Hybrid 607.....	84.3	81.4	3.2	22.9	95.0	105.1	100.9	102.0
10	Funk Hybrid G-212.....	87.2	82.5	5.3	21.0	89.9	99.4	102.2	101.5
10	Illinois Hybrid 201.....	82.5	81.3	1.4	20.8	93.7	103.7	100.7	101.5
12	Holmes Utility Hybrid 35.....	83.1	81.3	2.1	19.5	93.4	103.3	100.7	101.4
13	M-L Hybrid 523 (Moews-Lowe).....	81.7	80.2	1.7	21.3	96.7	107.0	99.4	101.3
14	Sibley Farms Hybrid 753B.....	82.3	80.3	2.4	19.8	96.2	106.4	99.5	101.2
15	Illinois Hybrid 21.....	83.6	80.6	3.6	20.4	94.2	104.2	99.9	101.0
16	Bear Hybrid OK-69.....	81.1	80.1	1.2	19.6	95.0	105.1	99.3	100.8
17	M-L Hybrid 514 (Moews-Lowe).....	81.3	79.8	1.8	19.7	95.9	106.1	98.9	100.7
18	Pioneer Hi-Bred 307.....	85.1	81.7	4.0	20.1	87.7	97.0	101.2	100.2
19	U. S. Hybrid 13.....	82.2	79.4	3.4	23.0	95.0	105.1	98.4	100.1
20	Sass Hybrid 50.....	84.8	83.3	1.8	20.8	81.2	89.8	103.2	99.9
20	Sass Hybrid 305.....	83.8	79.5	5.2	20.7	94.2	104.2	98.5	99.9
22	U. S. Hybrid 44.....	80.8	79.3	2.3	21.0	90.6	100.2	98.3	98.8
23	Stiegelmeier Hybrid 380.....	75.2	73.7	2.0	21.8	93.7	103.7	91.3	94.4
24	Stiegelmeier Hybrid 702.....	73.2	70.7	3.2	21.4	94.5	104.5	87.6	91.8
25	Miller Hybrid 1050 (W).....	74.4	73.3	1.7	22.6	82.7	91.5	90.8	91.0
26	Crow Hybrid 501 (W).....	72.9	71.3	2.0	21.3	78.5	86.8	88.4	88.0
27	Krug.....	75.5	73.1	3.2	21.2	67.4	74.6	90.6	86.6
Average of all entries.....		83.0	80.7	2.6	20.9	90.4	....	....	....
(B) Average yields of entries grown in 1939, 1940, 1941									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Pioneer Hi-Bred 313.....	90.7	87.8	3.1	18.3	87.4	95.5	110.2	106.5
2	Illinois Hybrid 972.....	86.4	84.7	2.0	17.8	92.3	100.9	106.3	105.0
3	U. S. Hybrid 14 (Ferris).....	86.0	83.8	2.5	17.5	93.0	101.6	105.1	104.2
4	Bear Hybrid OK-69.....	82.6	81.8	1.0	17.7	95.7	104.6	102.6	103.1
4	M-L Hybrid 523 (Moews-Lowe).....	82.9	81.4	1.7	18.8	97.1	106.1	102.1	103.1
6	M-L Hybrid 514 (Moews-Lowe).....	81.8	80.7	1.3	17.0	96.9	105.9	101.3	102.5
7	Funk Hybrid G-212.....	85.0	81.8	3.6	17.9	92.6	101.2	102.6	102.3
8	U. S. Hybrid 13.....	82.1	79.9	2.7	19.7	95.7	104.6	100.3	101.4
9	Sibley Farms Hybrid 753B.....	80.9	79.4	1.8	17.5	96.1	105.0	99.6	101.0
10	Sass Hybrid 50.....	83.4	82.2	1.4	17.9	85.8	93.8	103.1	100.8
11	Pioneer Hi-Bred 307.....	82.6	80.2	2.8	17.2	90.4	98.8	100.6	100.2
12	U. S. Hybrid 44.....	79.7	78.6	1.8	18.0	92.7	101.3	98.6	99.3
13	Stiegelmeier Hybrid 380.....	76.6	75.5	1.4	18.8	94.4	103.2	94.7	96.8
14	Stiegelmeier Hybrid 702.....	75.7	74.0	2.2	18.0	96.3	105.2	92.8	95.9
15	Crow Hybrid 501 (W).....	73.0	71.8	1.6	18.0	82.7	90.4	90.1	90.2
16	Krug.....	73.9	72.1	2.5	19.3	74.6	81.5	90.5	88.3
Average of all entries.....		81.5	79.7	2.1	18.1	91.5	....	....	....
(C) Average yields of entries grown in 1938, 1939, 1940, 1941									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Pioneer Hi-Bred 313.....	87.5	85.0	2.7	17.1	84.3	98.4	109.4	106.7
2	M-L Hybrid 514 (Moews-Lowe).....	80.9	80.0	1.1	15.9	93.4	109.0	103.0	104.5
3	M-L Hybrid 523 (Moews-Lowe).....	79.6	78.5	1.3	17.6	91.2	106.4	101.0	102.4
4	Funk Hybrid G-212.....	81.6	78.4	3.7	16.6	88.2	102.9	100.9	101.4
5	Pioneer Hi-Bred 307.....	80.3	78.4	2.2	16.2	86.3	100.7	100.9	100.9
6	U. S. Hybrid 44.....	76.7	75.7	1.5	17.0	87.9	102.6	97.4	98.7
7	Krug.....	69.5	68.0	2.0	18.4	68.3	79.7	87.5	85.6
Average of all entries.....		79.4	77.7	2.1	17.0	85.7	....	....	....
(D) Average yields of entries grown in 1937, 1938, 1939, 1940, 1941									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Pioneer Hi-Bred 307.....	79.0	77.5	1.8	15.8	84.3	106.6	104.4	105.0
2	Funk Hybrid G-212.....	79.4	76.9	3.0	16.3	85.5	108.1	103.6	104.7
3	U. S. Hybrid 44.....	75.6	74.8	1.2	16.8	84.5	106.8	100.8	102.3
4	Krug.....	68.6	67.4	1.6	18.4	62.2	78.6	90.8	87.8
Average of all entries.....		75.7	74.2	1.9	16.8	79.1	....	....	....

Table 13.—EAST NORTH-CENTRAL ILLINOIS: Reddick, Resistance to Lodging Caused by Feeding of the Southern Corn Rootworms¹

Rank	Entry	Plants leaning 30 degrees or more ²	Plants leaning more than 45 degrees	Resistance rating compared with average ³
	1941	perct.	perct.	
1	M-L Hybrid 514 (Moews-Lowe).....	7.5		311
2	Kelly Hybrid K-100.....	8.2		288
3	Holmes Utility Hybrid 35.....	9.5		246
4	Pioneer Hi-Bred 313.....	12.1		193
5	Sibley Farms Hybrid 753B.....	13.0		182
6	Ferris Hybrid 10.....	13.0		182
7	Illinois Hybrid 960.....	13.7		171
8	Illinois Hybrid 258B (Station).....	14.3		164
9	Bear Hybrid OK-66.....	15.1		155
10	Funk Hybrid G-212.....	15.5		151
11	Pioneer Hi-Bred 333.....	16.2		146
12	Bear Hybrid OK-69.....	16.4		144
13	Crow Hybrid 608.....	16.4		144
14	U. S. Hybrid 13 (Frey).....	16.6		142
15	Pioneer Hi-Bred 332.....	16.9		139
16	Crow Hybrid 607.....	17.1		137
17	Illinois Hybrid 201.....	17.8		133
18	M-L Hybrid 523 (Moews-Lowe).....	17.8		133
19	Schwenk Hybrid 25.....	19.0		124
20	Illinois Hybrid 374.....	19.3		122
21	Ferris Hybrid 44-1.....	19.6		120
22	Iowaleth Hybrid AQ.....	20.3		116
23	Crow Hybrid 804.....	20.4		116
24	Funk Hybrid G-73.....	20.4		116
25	Illinois Hybrid 21 (Dyar).....	20.4		116
26	Hahn Hybrid 89.....	20.7		113
27	Farmcraft Hybrid 66.....	21.0		112
28	Illinois Hybrid 21 (Frey).....	21.1		111
29	Dyar Hybrid D81.....	21.1		111
30	Sass Hybrid 12 (L. A. Sass).....	21.8		108
31	M-L Hybrid 560 (Moews-Lowe).....	22.5		104
32	National Hybrid 125.....	22.5		104
33	Hoosier-Crost Hybrid 668-L.....	22.7		104
34	U. S. Hybrid 44.....	23.8		99
35	Illinois Hybrid 972.....	23.9		98
36	Illinois Hybrid 262 (Station).....	24.7		95
37	U. S. Hybrid 14 (Ferris).....	24.8		95
38	Kelly Hybrid K-42.....	24.9		94
39	Pioneer Hi-Bred 307.....	25.3		93
40	Sass Hybrid 305 (U. G. Sass).....	25.6		92
41	Farmcraft Hybrid 42.....	26.6		89
42	Miller Hybrid 1050(W).....	27.0		87
43	U. S. Hybrid 44 (Frey).....	27.1		87
44	Stiegelmeier Hybrid 702.....	28.9		81
45	Holmes Utility Hybrid 29.....	29.0		81
46	Iowaleth Hybrid 25R.....	29.6		80
47	Holmes Utility Hybrid 46.....	30.7		77
48	Funk Hybrid G-72.....	31.3		75
49	Sass Hybrid 50 (L. A. Sass).....	31.6		75
50	Pioneer Hi-Bred 334.....	31.6		75
51	Funk Hybrid G-75.....	31.7		74
52	Hulting Hybrid 380B.....	32.7		72
53	Stiegelmeier Hybrid 380.....	33.0		72
54	Hulting Hybrid 101.....	33.9		69
55	Crow Hybrid 633.....	35.0		67
56	Illinois Hybrid 751 (Coldwater).....	35.1		67
57	Sass Hybrid 91 (U. G. Sass).....	37.8		
58	Bear Hybrid OK-72.....	39.1		
59	Crow Hybrid 501 (W).....	45.7		
60	Krug.....	55.4		
	Average of all entries.....	23.5		....

¹*Diabrotica duodecimpunctata* (F.). ²A difference of less than 4.3 in this column is not significant. ³High rating indicates better standing ability.

For Table 14, Summary of Lodging Caused by Rootworms at Reddick, see page 504.

Table 15.—WEST-CENTRAL ILLINOIS: Littleton

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
	1941	bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	*Huey Hybrid 20 (Huey Seed Co.) . . .	95.9	90.7	5.4	18.3	48.0	136.0	120.3	124.2
2	Hulting Hybrid 101	90.0	85.1	5.5	19.7	52.0	147.3	112.9	121.5
3	Holmes Utility Hybrid 35	83.0	77.4	6.8	19.4	56.0	158.6	102.7	116.7
4	†Illinois Hybrid 960	88.9	85.6	3.7	18.7	44.0	124.6	113.5	116.3
5	Bear Hybrid OK-40	87.2	84.1	3.6	18.4	46.0	130.3	111.5	116.2
6	Illinois Hybrid 246 (Wilson)	87.2	82.3	5.6	19.4	48.0	136.0	109.2	115.9
7	Illinois Hybrid 205 (Oakes)	91.5	83.0	9.3	20.1	46.0	130.3	110.1	115.2
7	†Illinois Hybrid 206	86.1	78.8	8.5	20.6	52.0	147.3	104.5	115.2
9	*Holmes Utility Hybrid 69	87.5	75.4	13.8	20.2	56.0	158.6	100.0	114.7
10	Null-Vollmer Hybrid NV-77 (Voll.) . .	90.5	82.0	9.4	20.2	46.0	130.3	108.8	114.2
11	Null Hybrid N-16	91.0	83.4	8.4	18.2	42.0	119.0	110.6	112.7
12	Null Hybrid N-54	91.8	88.1	4.0	19.8	34.0	96.3	116.8	111.7
13	Illinois Hybrid 21 (Huey Seed Co.) . .	80.3	75.9	5.5	19.1	50.0	141.6	100.7	110.9
14	*Producers' Hybrid 1000	90.2	81.5	9.6	20.3	40.0	113.3	108.1	109.4
15	Morgan Hybrid M-546	82.4	76.8	6.8	20.4	46.0	130.3	101.9	109.0
16	Bear Hybrid OK-72	83.8	80.7	3.7	19.4	40.0	113.3	107.0	108.6
17	Stiegelmeier Hybrid 38	83.3	77.3	7.2	18.2	44.0	124.6	102.5	108.0
18	McCurdy Hybrid 123M	86.4	79.9	7.5	19.4	40.0	113.3	106.0	107.8
19	Bear Hybrid OK-66	81.9	76.7	6.3	19.4	44.0	124.6	101.7	107.4
20	*Pioneer Hi-Bred 332	99.7	87.9	11.8	19.8	28.0	79.3	116.6	107.3
21	Kelly Hybrid K-99	77.6	72.0	7.2	20.1	50.0	141.6	95.5	107.0
22	†U. S. Hybrid 13	91.5	84.7	7.4	19.1	32.0	90.7	112.3	106.9
23	U. S. Hybrid 13 (Macon)	86.3	80.0	7.3	19.1	38.0	107.7	106.1	106.5
24	†Illinois Hybrid 247	88.9	79.9	10.1	20.0	38.0	107.7	106.0	106.4
	●Average of 5 hybrid checks	86.1	79.7	7.5	20.1	37.6	106.5	105.7	105.9
25	*Bear Hybrid OK-57	87.0	83.5	4.0	19.4	32.0	90.7	110.7	105.7
25	Null Hybrid N-95	87.6	79.2	9.6	20.6	38.0	107.7	105.0	105.7
27	M-L Hybrid 120 (Moews-Lowe) . . .	82.6	80.5	2.6	18.2	36.0	102.0	106.8	105.6
28	M-L Hybrid 850 (Moews-Lowe) . . .	83.6	78.2	6.4	19.1	38.0	107.7	103.7	104.7
29	Illinois Hybrid 201 (Macon)	86.4	76.6	11.4	20.6	40.0	113.3	101.6	104.5
30	*Illinois Hybrid 126 (Station)	84.4	80.2	5.0	19.8	34.0	96.3	106.4	103.9
31	Macon Hybrid 666	76.4	74.4	2.6	19.3	42.0	119.0	98.7	103.8
32	M-L Hybrid 523 (Moews-Lowe) . . .	84.0	75.6	10.0	20.7	38.0	107.7	100.3	102.2
32	Pioneer Hi-Bred 336	82.8	72.8	12.1	20.9	42.0	119.0	96.6	102.2
34	Kelly Hybrid K-100	81.2	68.2	16.0	20.9	48.0	136.0	90.5	101.9
35	Kelly Hybrid K-374	85.6	76.0	11.2	19.7	36.0	102.0	100.8	101.1
36	Iowearth Hybrid AQr	84.0	75.8	9.8	20.6	36.0	102.0	100.5	100.9
37	Crow Hybrid 608	83.8	79.9	4.7	21.7	30.0	85.0	106.0	100.8
38	Ferris Hybrid 9	79.8	75.6	5.3	20.2	36.0	102.0	100.3	100.7
39	*Hulting Hybrid 380B	88.0	78.1	11.3	19.7	32.0	90.7	103.6	100.4
39	U. S. Hybrid 13 (Huey Seed Co.) . .	85.0	75.3	11.4	22.0	36.0	102.0	99.9	100.4
41	*Illinois Hybrid 716 (Station)	81.4	75.7	7.0	18.9	34.0	96.3	100.4	99.4
42	*M-L Hybrid 290 (Moews-Lowe) . . .	84.2	78.3	7.0	20.2	30.0	85.0	103.8	99.1
43	U. S. Hybrid 13 (C. Doubet)	81.1	72.3	10.8	20.8	38.0	107.7	95.9	98.9
43	M-L Hybrid 830 (Moews-Lowe) . . .	80.5	72.3	10.2	22.9	38.0	107.7	95.9	98.9
45	E. W. Doubet Hybrid D11	76.9	71.7	6.8	20.0	36.0	102.0	95.1	96.8
46	*Illinois Hybrid 227 (Station)	83.8	75.8	9.5	19.8	30.0	85.0	100.5	96.6
47	*Durst Hybrid 14	82.6	76.8	7.0	22.0	28.0	79.3	101.9	96.3
48	Null Hybrid N-78	86.9	79.1	9.0	20.8	24.0	68.0	104.9	95.7
48	Null-Vollmer Hybrid NV-34 (Voll.) .	74.5	70.6	5.2	20.2	36.0	102.0	93.6	95.7
50	Iowearth Hybrid 25A	80.0	69.0	13.8	20.7	38.0	107.7	91.5	95.6
51	E. W. Doubet Hybrid D8	78.3	73.2	6.5	21.1	32.0	90.7	97.1	95.5
52	*National Hybrid 125	83.7	75.4	9.9	19.4	28.0	79.3	100.0	94.8
52	Funk Hybrid G-80	77.8	68.2	12.3	22.7	38.0	107.7	90.5	94.8
54	*Pioneer Hi-Bred 300	82.5	76.9	6.8	22.0	24.0	68.0	102.0	93.5
55	*Funk Hybrid G-79	71.7	68.8	4.0	19.8	34.0	96.3	91.2	92.5
56	*Funk Hybrid G-139	66.0	59.6	9.7	23.3	46.0	130.3	79.0	91.8
57	*Null-Vollmer Hybrid NV-96 (Voll.) .	69.6	66.4	4.6	23.1	36.0	102.0	88.1	91.6
58	*Null-Vollmer Hybrid NV-36 (Voll.) .	76.4	69.9	8.5	21.1	28.0	79.3	92.7	89.4
59	Crow Hybrid 805	79.1	62.7	20.7	20.1	38.0	107.7	83.2	89.3
60	Producers' Hybrid 753	82.1	76.5	6.8	21.2	18.0	51.0	101.5	88.9
61	Funk Hybrid G-212	81.2	71.9	11.5	21.1	22.0	62.3	95.4	87.1
62	*Pioneer Hi-Bred 313	85.2	72.8	14.6	24.1	20.0	56.7	96.6	86.6
63	Morgan Hybrid M-52A	76.7	68.4	10.8	20.2	26.0	73.7	90.7	86.5
64	Null Hybrid N-61	83.5	75.9	9.1	20.2	14.0	39.7	100.7	85.5
65	†Illinois Hybrid 805	75.3	69.4	7.8	22.0	22.0	62.3	92.0	84.6
66	*Durst Hybrid 76	80.3	74.0	7.8	22.7	14.0	39.7	98.1	83.5
67	Crow Hybrid 804	74.8	69.0	7.7	20.2	20.0	56.7	91.5	82.8
68	Crow Hybrid 607	76.0	69.3	8.8	22.9	18.0	51.0	91.9	81.7
69	*Null-Vollmer Hybrid NV-81 (Voll.) .	74.7	65.4	12.4	23.5	22.0	62.3	86.7	80.6
70	*Morgan Hybrid M-26	71.5	61.0	14.7	21.4	24.0	68.0	80.9	77.7
71	*Morgan Hybrid M-75	52.5	50.3	4.1	22.3	24.0	68.0	66.7	67.0
72	Station Yellow Dent	72.4	62.0	14.4	22.9	6.0	17.0	82.2	65.9
	Average of all entries	82.3	75.4	8.4	20.5	35.3	....	....	....

*Less than 5 bushels of seed sampled. †Hand-pollinated hybrid checks.

A difference of less than 6.9 bushels between total yields of any two entries in this table is not significant.

Table 16.—WEST-CENTRAL ILLINOIS: Littleton Summaries

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
(A) Average yield of entries grown in 1940 and 1941									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 960.....	90.6	88.6	2.3	18.4	71.0	104.7	110.6	109.1
2	Pioneer Hi-Bred 332.....	96.1	90.1	6.1	20.4	64.0	94.4	112.5	108.0
3	Illinois Hybrid 246.....	89.6	86.0	3.7	19.0	74.0	109.1	107.4	107.8
4	Null Hybrid N-54.....	89.5	87.4	2.2	19.6	67.0	98.8	109.1	106.5
4	Illinois Hybrid 247.....	91.5	86.6	5.4	19.0	69.0	101.8	108.1	106.5
6	Null Hybrid N-16.....	89.3	84.8	5.0	17.9	71.0	104.7	105.9	105.6
7	Illinois Hybrid 21.....	83.7	81.3	3.0	18.2	75.0	110.6	101.5	103.8
8	Bear Hybrid OK-72.....	85.4	82.7	3.1	18.5	70.0	103.2	103.2	103.2
9	Holmes Utility Hybrid 69.....	85.7	79.0	7.7	18.7	78.0	115.0	98.6	102.7
10	U. S. Hybrid 13.....	87.0	82.5	5.2	19.2	68.0	100.3	103.0	102.3
11	Stiegelmeier Hybrid 38.....	83.8	80.4	4.1	18.6	72.0	106.2	100.4	101.9
12	Illinois Hybrid 201.....	86.0	80.9	6.0	19.3	70.0	103.2	101.0	101.6
12	Holmes Utility Hybrid 35.....	81.8	78.0	4.7	18.3	77.5	114.3	97.4	101.6
14	Crow Hybrid 608.....	84.0	81.9	2.6	18.8	65.0	95.9	102.2	100.6
15	M-L Hybrid 523 (Moews-Lowe).....	84.0	79.6	5.2	19.8	69.0	101.8	99.4	100.0
16	Pioneer Hi-Bred 300.....	84.4	81.2	3.8	20.7	62.0	91.4	101.4	98.9
16	Kelly Hybrid K-374.....	83.9	78.8	6.1	18.3	68.0	100.3	98.4	98.9
18	Illinois Hybrid 126.....	82.1	78.8	4.0	19.3	67.0	98.8	98.4	98.5
19	Macon Hybrid 666.....	79.5	77.0	3.2	18.6	71.0	104.7	96.1	98.3
20	Pioneer Hi-Bred 336.....	83.0	76.7	7.6	20.0	71.0	104.7	95.8	98.0
21	Morgan Hybrid M-52A.....	84.1	79.4	6.0	19.1	63.0	92.9	99.1	97.6
22	Pioneer Hi-Bred 313.....	87.4	80.5	8.1	22.1	59.5	87.8	100.5	97.3
23	Funk Hybrid G-212.....	83.6	78.9	5.9	20.3	61.0	90.0	98.5	96.4
24	Kelly Hybrid K-100.....	80.4	73.6	8.4	19.6	74.0	109.1	91.9	96.2
25	Illinois Hybrid 805.....	81.7	78.5	4.3	20.3	61.0	90.0	98.0	96.0
26	Funk Hybrid G-80.....	79.0	73.6	6.9	20.8	69.0	101.8	91.9	94.4
27	Crow Hybrid 607.....	80.1	76.6	4.6	21.0	59.0	87.0	95.6	93.5
28	M-L Hybrid 830 (Moews-Lowe).....	76.4	72.0	5.6	21.3	69.0	101.8	89.9	92.9
29	Station Yellow Dent.....	74.0	68.6	7.4	21.7	50.0	73.7	85.6	82.6
Average of all entries.....		84.4	80.1	5.1	19.5	67.8	....	....	....
(B) Average yield of entries grown in 1939, 1940, 1941									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Null Hybrid N-16.....	94.0	90.2	4.1	16.1	80.3	107.1	106.0	106.3
2	Null Hybrid N-54.....	93.4	91.7	1.7	17.4	76.0	101.3	107.8	106.2
3	Bear Hybrid OK-72.....	90.0	88.1	2.2	16.3	79.0	105.3	103.5	104.0
4	U. S. Hybrid 13.....	90.7	87.6	3.6	17.0	77.2	102.9	102.9	102.9
5	Stiegelmeier Hybrid 38.....	88.2	85.8	2.9	16.7	81.0	108.0	100.8	102.6
6	Illinois Hybrid 960.....	88.4	86.6	2.0	16.3	76.8	102.4	101.8	102.0
7	Illinois Hybrid 201.....	90.1	86.5	4.2	17.4	77.0	102.7	101.6	101.9
8	Illinois Hybrid 126.....	86.8	84.4	2.9	17.2	75.7	100.9	99.2	99.6
9	Crow Hybrid 608.....	85.8	84.2	1.9	16.7	75.7	100.9	98.9	99.4
9	Kelly Hybrid K-100.....	86.7	81.7	6.1	17.8	82.3	109.7	96.0	99.4
11	Funk Hybrid G-80.....	87.3	83.0	5.3	19.0	77.3	103.1	97.5	98.9
12	Funk Hybrid G-212.....	87.2	83.7	4.3	17.6	72.7	96.9	98.4	98.0
13	Crow Hybrid 607.....	86.5	84.1	3.1	18.4	68.0	90.7	98.8	96.8
14	Pioneer Hi-Bred 313.....	88.4	83.7	5.6	18.8	65.7	87.6	98.4	95.7
15	Station Yellow Dent.....	78.5	74.6	5.4	19.2	61.0	81.3	87.7	86.1
Average of all entries.....		88.1	85.1	3.7	17.5	75.0	....	....	....
(C) Average yield of entries grown in 1938, 1939, 1940, 1941									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	U. S. Hybrid 13.....	85.2	82.6	3.0	17.5	72.0	111.5	106.7	107.9
2	Illinois Hybrid 960.....	81.6	80.0	1.9	16.4	70.0	108.4	103.4	104.7
3	Funk Hybrid G-212.....	81.1	78.3	3.5	17.4	66.6	103.1	101.2	101.7
4	Pioneer Hi-Bred 313.....	82.1	78.5	4.2	18.0	60.0	92.9	101.4	99.3
5	Station Yellow Dent.....	70.9	67.5	4.9	19.0	54.3	84.1	87.2	86.4
Average of all entries.....		80.2	77.4	3.5	17.7	64.6	....	....	....
(D) Average yield of entries grown in 1937, 1938, 1939, 1940, 1941									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 960.....	86.8	85.5	1.5	16.8	70.6	109.8	106.0	107.0
2	Funk Hybrid G-212.....	86.7	84.3	2.9	17.5	68.5	106.5	104.5	105.0
3	Station Yellow Dent.....	74.9	72.2	4.0	19.3	53.7	83.5	89.5	88.0
Average of all entries.....		82.8	80.7	2.8	17.9	64.3	....	....	....

Table 17.—WEST-CENTRAL ILLINOIS: Littleton, Resistance to Lodging Caused by Feeding of Southern Corn Rootworms¹

Rank	Entry	Plants leaning 30 degrees or more ²	Plants leaning more than 45 degrees	Resistance rating com- pared with average ³
	1941	perct.	perct.	
1	Holmes Utility Hybrid 35.....	46.7	9.3	157
2	Holmes Utility Hybrid 69.....	54.7	5.6	156
3	Illinois Hybrid 205 (Oakes).....	57.8	6.6	145
4	Morgan Hybrid M-546.....	52.2	9.4	145
5	Producers' Hybrid 1000.....	61.2	5.0	144
6	Illinois Hybrid 960.....	58.2	7.6	140
7	Null Hybrid N-95.....	59.8	7.1	139
8	Funk Hybrid G-139.....	60.2	8.7	132
9	Hulting Hybrid 101.....	54.2	11.8	132
10	Huey Hybrid 20 (Huey Seed Co.).....	66.0	7.1	128
11	Null-Vollmer Hybrid NV-77 (Vollmer).....	62.7	9.0	127
12	Illinois Hybrid 206.....	54.4	13.2	127
13	Stiegelmeier Hybrid 38.....	67.0	7.3	126
14	U. S. Hybrid 13 (C. Doubet).....	60.1	10.6	126
15	Macon Hybrid 666.....	57.8	12.2	125
16	Ferris Hybrid 9.....	59.7	11.6	124
17	Kelly Hybrid K-100.....	65.9	8.7	123
18	McCurdy Hybrid 123M.....	60.3	12.3	121
19	Illinois Hybrid 247.....	70.4	8.0	119
20	Funk Hybrid G-80.....	59.9	13.5	118
21	Iowahealth Hybrid AQ.....	59.8	14.2	117
22	Illinois Hybrid 21 (Huey Seed Co.).....	55.6	15.1	117
23	Pioneer Hi-Bred 332.....	68.3	10.9	114
24	M-L Hybrid 850 (Moews-Lowe).....	65.3	12.5	114
25	U. S. Hybrid 13 (Macon).....	59.7	15.2	114
26	Iowahealth Hybrid 25A.....	69.0	11.8	111
27	U. S. Hybrid 13 (Huey Seed Co.).....	67.9	12.1	111
28	Bear Hybrid OK-72.....	66.0	13.3	111
29	Kelly Hybrid K-99.....	60.4	15.9	111
30	Null Hybrid N-16.....	58.2	17.3	111
31	Illinois Hybrid 246 (Wilson).....	69.8	12.6	108
32	M-L Hybrid 523 (Moews-Lowe).....	68.6	13.5	108
33	M-L Hybrid 290 (Moews-Lowe).....	66.7	14.1	108
34	E. W. Doubet Hybrid D11.....	65.3	14.8	108
35	U. S. Hybrid 13.....	65.3	15.3	107
36	Crow Hybrid 608.....	71.3	13.0	106
37	Bear Hybrid OK-40.....	67.9	15.5	104
38	Null-Vollmer Hybrid NV-34 (Vollmer).....	66.9	15.8	104
39	M-L Hybrid 830 (Moews-Lowe).....	65.6	16.5	104
40	Illinois Hybrid 716 (Station).....	61.9	19.0	103
41	Funk Hybrid G-79.....	74.8	14.1	100
42	Null-Vollmer Hybrid NV-36 (Vollmer).....	74.5	14.2	100
43	Null-Vollmer Hybrid NV-96 (Vollmer).....	71.9	15.3	100
44	M-L Hybrid 120 (Moews-Lowe).....	61.3	20.7	100
45	Bear Hybrid OK-66.....	71.8	15.8	99
46	Pioneer Hi-Bred 336.....	74.9	15.3	97
47	Illinois Hybrid 201 (Macon).....	71.6	17.5	96
48	Null Hybrid N-54.....	65.8	11.8	94
49	Crow Hybrid 805.....	77.4	16.2	94
50	Bear Hybrid OK-57.....	70.4	19.4	94
51	Hulting Hybrid 380B.....	68.0	20.5	94
52	Null-Vollmer Hybrid NV-81 (Vollmer).....	79.0	15.9	93
53	Illinois Hybrid 126 (Station).....	79.2	15.9	93
54	E. W. Doubet Hybrid D8.....	71.5	19.4	93
55	Illinois Hybrid 227 (Station).....	76.1	19.6	89
56	Null Hybrid N-78.....	79.0	21.0	85
57	Null Hybrid N-61.....	78.7	22.8	83
58	Funk Hybrid G-212.....	77.4	23.6	83
59	Illinois Hybrid 805.....	82.7	21.7	81
60	National Hybrid 125.....	81.1	22.5	81
61	Crow Hybrid 804.....	78.8	23.7	81
62	Kelly Hybrid K-374.....	84.8	21.9	80
63	Crow Hybrid 607.....	73.0	29.8	78
64	Morgan Hybrid M-52A.....	82.8	27.9	74
65	Morgan Hybrid M-26.....	78.7	30.1	74
66	Durst Hybrid 14.....	89.2	28.0	71
67	Durst Hybrid 76.....	89.7	28.0	71
68	Producers' Hybrid 753.....	82.0	31.2	71
69	Pioneer Hi-Bred 300.....	83.4	31.3	70
70	Morgan Hybrid M-75.....	86.2	32.2	68
71	Station Yellow Dent.....	94.4	43.0	57
72	Pioneer Hi-Bred 313.....	92.3	54.2	51
	Average of all entries.....	69.2	16.8	100

¹*Diabrotica duodecimpunctata* (F.). ²A difference of less than 6.0 in this column is not significant. ³High rating indicates better standing ability.

Table 18.—WEST-CENTRAL ILLINOIS: Littleton, Summary of Lodging Caused by Feeding of Corn Rootworms¹

Rank	Entry	Plants leaning 30 degrees or more	Plants leaning 45 degrees or more	Resistance rating com- pared with average ²	Plants leaning 30 degrees or more	Plants leaning 45 degrees or more
Average of 1939 and 1941					Average of 1938, 1939 and 1941	
		perct.	perct.		perct.	perct.
1	Illinois Hybrid 960.....	30.6	.4	210	49.9	6.1
2	Stiegelmeier Hybrid 38.....	37.2	4.6	142	....	....
3	Illinois Hybrid 206.....	32.7	7.9	136	....	....
4	Kelly Hybrid K-100.....	39.3	5.3	132	....	....
5	M-L Hybrid 850 (Moews-Lowe).....	37.1	7.0	129	....	....
6	Null Hybrid N-16.....	33.3	9.4	126	....	....
7	Kelly Hybrid K-99.....	36.0	10.0	118	....	....
8	Null Hybrid N-54.....	42.0	7.1	117	....	....
9	Bear Hybrid OK-72.....	40.1	8.2	117	....	....
10	Funk Hybrid G-80.....	40.1	8.7	115	....	....
11	Crow Hybrid 608.....	45.4	8.0	107	....	....
12	U. S. Hybrid 13.....	46.1	9.3	102	53.4	9.0
13	Funk Hybrid G-212.....	43.5	12.9	95	63.9	15.7
14	Illinois Hybrid 126.....	51.1	10.0	93	....	....
15	Crow Hybrid 607.....	42.6	16.4	88	....	....
16	Illinois Hybrid 201.....	51.7	12.4	86	....	....
17	Station Yellow Dent.....	73.1	28.6	51	84.7	30.0
18	Pioneer Hi-Bred 313.....	69.0	34.6	48	78.1	24.0
	Average of all entries.....	43.9	11.0	100	....	....

¹*Diabrotica duodecimpunctata* (F.) and *Diabrotica longicornis* (Say). ²High rating indicates increased standing ability.

Table 14.—EAST NORTH-CENTRAL ILLINOIS: Reddick, Summary of Lodging Caused by Feeding of Corn Rootworms¹

Rank	Entry	Plants leaning 30 degrees or more	Plants leaning 45 degrees or more
Average of 1938 and 1941		perct.	perct.
1	M-L Hybrid 514 (Moews-Lowe).....	13.7	1.1
2	Illinois Hybrid 960.....	17.9	1.6
3	M-L Hybrid 523 (Moews-Lowe).....	23.9	2.4
4	Pioneer Hi-Bred 313.....	28.9	1.1
5	Funk Hybrid G-212.....	28.8	2.5
6	U. S. Hybrid 44.....	36.1	1.8
7	Pioneer Hi-Bred 307.....	36.3	2.7
8	Illinois Hybrid 751.....	42.1	3.4
9	Krug.....	60.7	7.8
	Average of all entries.....	32.0	2.6

¹*Diabrotica duodecimpunctata* (F.) and *Diabrotica longicornis* (Say).

(For 1941 table showing rootworm damage on East North-Central field, see page 500.)

Table 19.—CENTRAL ILLINOIS: Mt. Pulaski

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
	1941	bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	*Bear Hybrid OK-34.....	94.0	92.9	1.2	16.8	83.3	149.3	103.8	115.2
2	†Illinois Hybrid 206.....	99.9	97.3	2.6	15.4	70.0	125.4	108.7	112.9
2	Null Hybrid N-16.....	97.8	96.4	1.4	17.5	71.7	128.5	107.7	112.9
4	Hulting Hybrid 101.....	96.5	93.4	3.2	17.0	76.7	137.5	104.4	112.7
5	U. S. Hybrid 13 (Frey).....	95.0	91.0	4.2	17.0	80.0	143.4	101.7	112.1
6	Illinois Hybrid 201 (Lauer).....	99.7	94.2	5.5	17.2	71.7	128.5	105.2	111.0
7	Durst Hybrid 8.....	91.5	91.0	.6	16.7	76.7	137.5	101.7	110.7
8	*Bear Hybrid OK-55.....	94.8	92.7	2.2	18.5	73.3	131.4	103.6	110.6
9	Illinois Hybrid 201 (Mountjoy).....	101.0	95.0	5.9	16.8	68.3	122.4	106.1	110.2
9	Bear Hybrid OK-69.....	95.1	91.4	3.9	17.8	75.0	134.4	102.1	110.2
11	Holmes Utility Hybrid 35.....	94.6	91.9	2.9	18.1	73.3	131.4	102.7	109.9
12	*Null Hybrid N-89.....	100.5	96.1	4.4	17.3	65.0	116.5	107.4	109.7
12	Null-Vollmer Hybrid NV-29 (Voll.).....	96.4	91.7	4.9	17.2	73.3	131.4	102.5	109.7
14	Crow Hybrid 805.....	93.5	90.7	3.0	17.3	71.7	128.5	101.3	108.1
15	Sibley Farms Hybrid 753B.....	94.7	91.5	3.4	17.9	70.0	125.4	102.2	108.0
15	Illinois Hybrid 201 (Lehmann).....	93.8	89.7	4.4	17.2	73.3	131.4	100.2	108.0
17	Kelly Hybrid K-374.....	93.8	90.6	3.4	18.2	70.0	125.4	101.2	107.3
18	*Holmes Utility Hybrid 69.....	102.8	94.9	7.7	17.9	61.7	110.6	106.0	107.2
18	Illinois Hybrid 257 (Station).....	98.0	94.9	3.2	17.0	61.7	110.6	106.0	107.2
20	Pioneer Hi-Bred 336.....	99.5	94.6	4.9	17.7	61.7	110.6	105.7	106.9
20	Illinois Hybrid 126 (Station).....	97.2	94.5	2.8	17.5	61.7	110.6	105.6	106.9
22	U. S. Hybrid 13.....	94.2	89.9	4.6	17.0	70.0	125.4	100.4	106.7
23	Crow Hybrid 608.....	93.7	90.7	3.2	17.3	68.3	122.4	101.3	106.6
24	M-L Hybrid 523 (Moews-Lowe).....	98.2	90.0	8.3	18.9	68.3	122.4	100.6	106.1
25	Illinois Hybrid 201 (Wilson).....	96.0	88.8	7.5	18.1	70.0	125.4	99.2	105.8
26	Macon Hybrid 666.....	98.0	94.4	3.7	17.5	58.3	104.5	105.5	105.3
26	Stiegelmeier Hybrid 38.....	97.3	93.6	3.8	17.9	60.0	107.5	104.6	105.3
26	Illinois Hybrid 716 (Station).....	97.7	92.6	5.2	17.2	61.7	110.6	103.5	105.3
29	*Hulting Hybrid 380B.....	104.1	95.9	7.9	17.3	55.0	98.6	107.1	105.0
30	*National Hybrid 125.....	92.7	89.0	4.0	17.0	66.7	119.5	99.4	104.4
31	M-L Hybrid 514 (Moews-Lowe).....	93.8	88.0	6.2	17.9	68.3	122.4	98.3	104.3
32	Bear Hybrid OK-66.....	91.0	88.5	2.7	18.2	66.7	119.5	98.9	104.1
33	Kelly Hybrid K-99.....	94.5	89.5	5.3	17.3	63.3	113.4	100.0	103.4
34	*Illinois Hybrid 227 (Station).....	94.7	89.1	5.9	17.8	63.3	113.4	99.6	103.1
35	Null Hybrid N-38.....	98.5	92.6	6.0	17.8	56.7	101.6	103.5	103.0
36	Iowaleth Hybrid 25A.....	93.6	92.6	1.1	16.8	55.0	98.6	103.5	102.3
37	*Null Hybrid N-17.....	98.5	95.2	3.3	18.6	50.0	89.6	106.4	102.2
37	Durst Hybrid 66.....	91.4	89.9	1.6	17.8	60.0	107.5	100.4	102.2
39	*Pioneer Hi-Bred 332.....	100.7	95.5	5.2	17.8	48.3	86.6	106.7	101.7
40	Illinois Hybrid 247 (Lauer).....	100.6	93.4	7.2	17.7	51.7	92.7	104.4	101.5
41	Illinois Hybrid 21 (Macon).....	87.3	84.4	3.3	17.3	68.3	122.4	94.3	101.3
42	Stiegelmeier Hybrid 901.....	94.7	89.6	5.4	17.0	58.3	104.5	100.1	101.2
42	Iowaleth Hybrid A9.....	95.6	86.9	9.1	17.3	63.3	113.4	97.1	101.2
44	Stiegelmeier Hybrid 904.....	94.4	88.1	6.7	17.2	58.3	104.5	98.4	99.9
45	Illinois Hybrid 960.....	93.0	89.6	3.7	17.0	55.0	98.6	100.1	99.7
46	Pioneer Hi-Bred 313.....	101.4	98.4	3.0	17.2	38.3	68.6	109.9	99.6
46	*Wilson Hybrid 193.....	97.1	95.7	1.4	17.0	43.3	77.6	106.9	99.6
48	Sibley Farms Hybrid S73.....	99.8	95.2	4.6	17.0	41.7	74.7	106.4	98.5
48	Ferris Hybrid 9.....	94.4	87.2	7.6	17.7	56.7	101.6	97.4	98.5
	● Average of 5 hybrid checks.....	94.9	89.4	5.9	18.0	51.0	91.7	100.5	98.3
50	Crow Hybrid 607.....	95.0	92.0	3.2	18.3	46.7	83.7	102.8	98.0
51	Pioneer Hi-Bred 300.....	95.9	88.2	8.0	17.9	51.7	92.7	98.5	97.1
52	*Bear Hybrid OK-32.....	96.3	93.1	3.3	17.5	41.7	74.7	104.0	96.7
53	*Funk Hybrid G-103.....	96.2	91.0	5.4	19.5	43.3	77.6	101.7	95.7
54	Seeber Hybrid 11A.....	94.3	91.6	2.9	17.0	41.7	74.7	102.3	95.4
55	Illinois Hybrid 247.....	98.4	92.7	5.8	17.7	36.7	65.8	103.6	94.2
56	M-L Hybrid 560 (Moews-Lowe).....	91.5	83.8	8.4	17.2	51.7	92.7	93.6	93.4
57	Crow Hybrid 804.....	80.8	78.3	3.1	18.7	56.7	101.6	87.5	91.0
58	Illinois Hybrid 200 (Macon).....	84.1	80.0	4.9	20.0	51.7	92.7	89.4	90.2
59	Stiegelmeier Hybrid 100.....	92.4	84.7	8.3	17.9	41.7	74.7	94.6	89.6
60	Sibley Farms Hybrid S75.....	91.5	82.0	10.4	19.3	43.3	77.6	91.6	88.1
61	*Null-Vollmer Hybrid NV-47 (Voll.).....	87.5	82.1	6.2	19.7	41.7	74.7	91.7	87.5
62	Kelly Hybrid K-100.....	94.0	86.3	8.2	20.4	33.3	59.7	96.4	87.2
63	Crow Hybrid 501 (W).....	88.4	87.0	1.6	17.2	26.7	47.8	97.2	84.9
64	*Null-Vollmer Hybrid NV-96 (Voll.).....	88.2	85.6	2.9	19.7	23.3	41.8	95.6	82.2
65	Station Yellow Dent.....	85.1	81.7	4.0	18.0	26.7	47.8	91.3	80.4
65	Funk Hybrid G-147.....	81.7	79.0	3.3	17.8	31.7	56.8	88.3	80.4
67	Illinois Hybrid 805 (Mountjoy).....	86.8	77.3	10.9	19.8	33.3	59.7	86.4	79.7
68	Funk Hybrid G-97.....	91.1	80.4	11.8	20.4	26.7	47.8	89.8	79.3
69	*Funk Hybrid G-139.....	82.4	77.6	5.8	20.0	31.7	56.8	86.7	79.2
70	†Illinois Hybrid 805.....	88.8	77.3	12.9	23.1	23.3	41.8	86.4	75.3
71	Pioneer Hi-Bred 337.....	80.9	75.2	7.1	17.5	20.0	35.8	84.0	72.0
	Average of all entries.....	94.2	89.5	5.0	17.9	55.8	.....	.....	.....

*Less than 5 bushels of seed sampled. †Hand-pollinated hybrid checks. †Average of 5 plots instead of 6.

A difference of less than 7.5 bushels between total yields of any two entries in this table is not significant.

Table 20.—CENTRAL ILLINOIS: Mt. Pulaski, Two-Year Summary

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
Average yield of entries grown in 1939 and 1940									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Null Hybrid N-89.....	85.8	82.5	3.7	15.5	79.5	104.9	107.7	107.0
2	Pioneer Hi-Bred 332.....	87.1	84.3	3.0	17.0	72.2	95.3	110.1	106.4
3	Bear Hybrid OK-55.....	81.0	79.5	1.7	16.1	85.2	112.4	103.8	106.0
4	Illinois Hybrid 206.....	82.7	81.0	2.0	14.7	80.8	106.6	105.7	105.9
5	Illinois Hybrid 201.....	81.3	78.1	3.5	14.9	84.4	111.3	102.0	104.3
6	Pioneer Hi-Bred 313.....	85.0	82.8	2.5	15.6	68.7	90.6	108.1	103.7
6	U. S. Hybrid 13.....	79.7	77.1	3.0	15.5	85.5	112.8	100.7	103.7
8	Illinois Hybrid 247.....	87.4	83.1	4.8	15.6	66.6	87.9	108.5	103.4
9	Pioneer Hi-Bred 336.....	81.1	78.5	2.8	15.3	79.9	105.4	102.5	103.2
10	M-L Hybrid 514 (Moews-Lowe).....	80.3	77.3	3.4	15.5	82.7	109.1	100.9	103.0
11	Holmes Utility Hybrid 69.....	83.8	78.3	6.2	15.3	79.4	104.7	102.2	102.8
12	Crow Hybrid 608.....	78.7	76.9	2.1	15.3	82.2	108.4	100.4	102.4
13	Bear Hybrid OK-32.....	83.3	81.6	1.8	15.9	67.9	89.6	106.5	102.3
14	Stiegelmeier Hybrid 38.....	80.1	77.7	2.8	16.1	79.0	104.2	101.4	102.1
15	Stiegelmeier Hybrid 901.....	79.9	77.3	2.8	14.9	79.2	104.5	100.9	101.8
15	M-L Hybrid 523 (Moews-Lowe).....	80.9	75.9	5.6	16.1	83.2	109.8	99.1	101.8
15	Illinois Hybrid 21.....	77.9	75.6	3.0	15.5	84.2	111.1	98.7	101.8
18	Crow Hybrid 607.....	80.9	79.0	2.1	16.7	69.9	92.2	103.1	100.4
19	Kelly Hybrid K-99.....	77.8	75.2	2.8	15.1	80.7	106.5	98.2	100.3
20	Kelly Hybrid K-374.....	76.7	73.9	3.7	16.1	84.0	110.8	96.5	100.1
21	Sibley Farms Hybrid 753B.....	76.0	74.3	1.9	15.7	81.0	106.9	97.0	99.5
22	Stiegelmeier Hybrid 904.....	79.1	75.4	4.3	15.5	77.7	102.5	98.4	99.4
23	Pioneer Hi-Bred 300.....	79.8	75.7	4.4	15.9	75.4	99.5	98.8	99.0
24	Stiegelmeier Hybrid 100.....	77.6	72.9	5.4	15.7	66.4	87.6	95.2	93.3
25	Kelly Hybrid K-100.....	78.1	73.2	5.8	17.1	63.7	84.0	95.6	92.7
26	Crow Hybrid 804.....	70.5	68.5	2.8	16.7	74.9	98.8	89.4	91.8
27	Illinois Hybrid 200.....	70.8	68.6	2.7	17.3	72.9	96.2	89.6	91.3
28	Illinois Hybrid 805.....	73.8	67.5	7.7	17.5	58.7	77.4	88.1	85.4
29	Station Yellow Dent.....	71.3	69.4	2.3	16.5	52.3	69.0	90.6	85.2
Average of all entries.....		79.6	76.6	3.6	15.9	75.8	.....	.....	.....

Table 21.—CENTRAL ILLINOIS: Mt. Pulaski, Resistance to Lodging Caused by Feeding of Southern Corn Rootworms¹

Rank	Entry	Plants leaning 30 degrees or more ²	Plants leaning more than 45 degrees	Resistance rating com- pared with average ³
1941		perct.	perct.	
1	Null Hybrid N-38.....	10.5	0	236
2	Funk Hybrid G-147.....	11.0	0	227
3	Kelly Hybrid K-99.....	11.7	0	212
4	Null Hybrid N-89.....	12.5	0	198
5	Illinois Hybrid 206.....	12.2	.3	195
6	Holmes Utility Hybrid 35.....	12.9	0	192
7	Kelly Hybrid K-100.....	13.1	0	189
8	*M-L Hybrid 523 (Moews-Lowe).....	13.3	0	187
9	Crow Hybrid 805.....	14.0	0	179
10	Sibley Farms Hybrid 753B.....	15.2	0	164
11	Bear Hybrid OK-66.....	13.9	.6	164
12	Null Hybrid N-16.....	15.4	0	162
13	Bear Hybrid OK-55.....	15.7	0	158
14	Iowaleth Hybrid AQ.....	16.5	0	151
15	Kelly Hybrid K-374.....	15.0	1.0	147
16	Iowaleth Hybrid 25A.....	17.3	0	144
17	Illinois Hybrid 126 (Station).....	17.6	0	142
18	Macon Hybrid 666.....	17.8	0	140
19	Seeber Hybrid 11A.....	17.8	0	140
20	Sibley Farms Hybrid S75.....	16.5	.6	140
21	Illinois Hybrid 201 (Mountjoy).....	18.2	0	137
22	Illinois Hybrid 201 (Lehmann).....	17.6	.3	137
23	Illinois Hybrid 257 (Station).....	15.4	1.4	137
24	Illinois Hybrid 201 (Wilson).....	19.2	0	130
25	Null-Vollmer Hybrid NV-29 (Vollmer).....	16.6	1.3	130
26	Illinois Hybrid 227 (Station).....	19.4	0	129
27	Illinois Hybrid 716 (Station).....	18.1	.7	128
28	U. S. Hybrid 13.....	20.2	0	124
29	Illinois Hybrid 201 (Lauer).....	20.2	0	124
30	Illinois Hybrid 247 (Lauer).....	18.3	.9	124
31	U. S. Hybrid 13 (Frey).....	17.8	1.2	124
32	Funk Hybrid G-103.....	19.8	.3	123
33	Illinois Hybrid 805.....	21.2	0	118
34	Bear Hybrid OK-34.....	21.2	0	118
35	M-L Hybrid 514 (Moews-Lowe).....	21.0	.3	116
36	Stiegelmeier Hybrid 901.....	19.3	1.2	115
37	Ferris Hybrid 9.....	22.2	0	113
38	Illinois Hybrid 247.....	21.5	.3	113
39	Pioneer Hi-Bred 332.....	22.3	0	112
40	Hulting Hybrid 380B.....	21.0	.9	110
41	Stiegelmeier Hybrid 904.....	21.6	.7	109
42	Pioneer Hi-Bred 336.....	21.2	.9	109
43	Bear Hybrid OK-69.....	22.2	.6	107
44	Stiegelmeier Hybrid 38.....	23.8	0	105
45	Illinois Hybrid 200 (Macon).....	24.1	0	103
46	Hulting Hybrid 101.....	21.7	1.2	103
47	Crow Hybrid 608.....	22.7	.9	102
48	*Durst Hybrid 66.....	22.0	1.2	102
49	Illinois Hybrid 960.....	24.8	0	101
50	M-L Hybrid 560 (Moews-Lowe).....	24.8	.3	98
51	*Sibley Farms Hybrid S73.....	25.2	.4	96
52	Null Hybrid N-17.....	24.2	.9	96
53	Illinois Hybrid 21 (Macon).....	22.9	1.5	96
54	Null-Vollmer Hybrid NV-47 (Vollmer).....	28.5	0	87
55	Pioneer Hi-Bred 300.....	28.6	.3	86
56	Funk Hybrid G-97.....	28.0	.6	86
57	Pioneer Hi-Bred 337.....	28.3	.7	84
58	*Holmes Utility Hybrid 69.....	24.4	2.6	84
59	Illinois Hybrid 805 (Mountjoy).....	29.4	.6	82
60	National Hybrid 125.....	26.1	2.6	80
61	Crow Hybrid 607.....	28.5	1.7	78
62	Null-Vollmer Hybrid NV-96 (Vollmer).....	34.6	.3	71
63	Funk Hybrid G-139.....	34.0	1.0	69
64	Crow Hybrid 804.....	33.2	1.4	69
65	Illinois Hybrid 200 (Powers).....	31.9	2.2	69
66	Stiegelmeier Hybrid 100.....	35.6	2.1	63
67	Pioneer Hi-Bred 313.....	41.4	.6	59
68	Wilson Hybrid 193.....	38.9	3.1	55
69	Crow Hybrid 501 (W).....	42.5	5.8	46
70	Durst Hybrid 8.....	52.1	4.5	41
71	Bear Hybrid OK-32.....	56.7	6.4	36
72	Station Yellow Dent.....	64.2	9.4	30
Average of all entries.....		23.2	.9	100

¹*Diabrotica duodecimpunctata* (F.). ²A difference of less than 3.5 in this column is not significant. ³High rating indicates better standing ability. *Average of 5 plots instead of 6.

Table 22.—EAST-CENTRAL ILLINOIS: Paxton

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
1941		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	*Null Hybrid N-49.....	115.8	110.7	4.4	19.0	66.0	96.8	111.8	108.1
2	M-L Hybrid 523 (Moews-Lowe)....	105.1	101.6	3.3	20.7	80.0	117.3	102.6	106.3
3	*Funk Hybrid G-73.....	111.7	104.9	6.1	21.3	72.0	105.6	106.0	105.9
4	†Illinois Hybrid 960.....	112.9	107.5	4.8	19.4	66.0	96.8	108.6	105.7
4	*Bear Hybrid OK-117.....	108.7	104.6	3.8	20.4	72.0	105.6	105.7	105.7
6	Null Hybrid N-54.....	110.5	103.6	6.2	22.2	74.0	108.5	104.6	105.6
7	*Bear Hybrid OK-116.....	105.8	101.3	4.3	20.1	78.0	114.4	102.3	105.3
8	Crow Hybrid 805.....	108.8	103.7	4.7	20.7	72.0	105.6	104.7	104.9
8	†Illinois Hybrid 206.....	106.5	102.7	3.6	20.4	74.0	108.5	103.7	104.9
10	Seebler Hybrid 11B.....	108.3	104.4	3.6	20.7	68.0	99.7	105.5	104.1
11	Stiegelmeier Hybrid 903.....	108.2	104.1	3.8	21.3	68.0	99.7	105.2	103.8
11	†U. S. Hybrid 13.....	103.9	101.2	2.6	20.4	74.0	108.5	102.2	103.8
13	Ferris Hybrid 9.....	107.0	98.9	7.6	21.6	78.0	114.4	99.9	103.5
14	Crow Hybrid 633.....	108.0	97.8	9.4	20.7	80.0	117.3	98.8	103.4
15	M-L Hybrid 514 (Moews-Lowe)....	105.1	99.5	5.3	20.7	76.0	111.4	100.5	103.2
16	*Illinois Hybrid 716 (Station).....	106.0	101.8	4.0	19.7	70.0	102.6	102.8	102.8
17	Funk Hybrid G-72.....	108.2	102.7	5.1	21.3	68.0	99.7	103.7	102.7
18	Sass Hybrid 20 (L. A. Sass).....	109.9	104.4	5.0	20.1	64.0	93.8	105.5	102.6
18	Crow Hybrid 608.....	102.2	99.6	2.5	20.3	74.0	108.5	100.6	102.6
18	Pioneer Hi-Bred 336.....	107.4	98.7	8.1	20.3	76.0	111.4	99.7	102.6
21	Stiegelmeier Hybrid 901.....	106.3	98.2	7.6	21.0	76.0	111.4	99.2	102.3
22	Funk Hybrid G-102.....	105.8	102.0	3.6	21.3	68.0	99.7	103.0	102.2
23	Crow Hybrid 607.....	107.2	99.5	7.2	20.7	72.0	105.6	100.5	101.8
23	*Funk Hybrid G-70.....	103.3	99.5	3.7	21.3	72.0	105.6	100.5	101.8
25	U. S. Hybrid 44 (Frey).....	105.6	101.2	4.2	21.0	68.0	99.7	102.2	101.6
25	Hoosier-Crost Hybrid 746.....	99.2	95.3	3.9	20.4	80.0	117.3	96.3	101.6
27	Sibley Farms Hybrid S73.....	110.8	107.7	2.8	20.4	54.0	79.2	108.8	101.4
●	Average of 5 hybrid checks.....	107.7	102.1	5.2	20.4	65.2	95.6	103.1	101.3
28	*Illinois Hybrid 600 (Station).....	106.7	102.2	4.2	22.7	64.0	93.8	103.2	100.9
28	Producers' Hybrid FCXX.....	106.8	100.3	6.1	21.3	68.0	99.7	101.3	100.9
30	*National Hybrid 129A.....	103.5	98.2	5.1	21.3	72.0	105.6	99.2	100.8
31	U. S. Hybrid 13 (Frey).....	109.5	98.1	10.4	20.8	72.0	105.6	99.1	100.7
31	Sibley Farms Hybrid 753B.....	103.8	98.0	5.6	20.4	72.0	105.6	99.0	100.7
33	*Null-Vollmer Hybrid NV-10 (Voll.)..	104.6	95.8	8.4	21.9	76.0	111.4	96.8	100.5
33	Farmcraft Hybrid 81.....	102.2	95.8	6.3	20.1	76.0	111.4	96.8	100.5
35	Null-Vollmer Hybrid NV-34 (Voll.)..	105.4	100.0	5.1	20.4	66.0	96.8	101.0	100.0
36	*Pioneer Hi-Bred 332.....	101.9	93.0	8.7	22.5	80.0	117.3	93.9	99.8
37	*Durst Hybrid 23.....	106.1	104.5	1.5	19.6	56.0	82.1	105.6	99.7
38	Illinois Hybrid 21 (Frey).....	101.2	94.6	6.5	20.4	76.0	111.4	95.6	99.6
39	Pioneer Hi-Bred 333.....	103.0	97.5	5.3	20.1	70.0	102.6	98.5	99.5
39	Iowa Hybrid 25A.....	104.8	96.5	7.9	20.4	72.0	105.6	97.5	99.5
41	*Funk Hybrid G-103.....	106.0	98.9	6.7	24.2	66.0	96.8	99.9	99.1
42	Sibley Farms Hybrid S75.....	106.1	101.7	4.1	20.4	60.0	88.0	102.7	99.0
43	Iowa Hybrid AQ.....	95.7	87.9	8.1	20.7	88.0	129.0	88.8	98.9
44	Bear Hybrid OK-69.....	101.1	95.5	5.5	21.0	72.0	105.6	96.5	98.8
45	Bear Hybrid OK-66.....	99.2	94.4	4.8	20.7	74.0	108.5	95.4	98.7
46	*Durst Hybrid 14.....	109.8	107.7	1.9	22.2	46.0	67.4	108.8	98.5
47	Hoosier-Crost Hybrid 668-L.....	100.9	93.4	7.4	20.7	74.0	108.5	94.3	97.9
48	Crow Hybrid 804.....	104.1	100.1	3.8	21.0	60.0	88.0	101.1	97.8
49	†Illinois Hybrid 247.....	107.9	98.0	9.2	20.6	64.0	93.8	99.0	97.7
50	Kelly Hybrid K-99.....	100.3	93.7	6.6	20.5	72.0	105.6	94.6	97.4
51	Pioneer Hi-Bred 300.....	105.9	93.4	11.8	21.3	72.0	105.6	94.3	97.1
52	Kelly Hybrid K-374.....	99.7	94.1	5.6	20.0	70.0	102.6	95.1	97.0
53	Farmcraft Hybrid 89.....	103.1	93.1	9.7	21.3	72.0	105.6	94.0	96.9
54	*M-L Hybrid 860 (Moews-Lowe)....	96.3	92.2	4.3	23.3	72.0	105.6	93.1	96.2
55	Stiegelmeier Hybrid 44.....	108.6	98.6	9.2	21.0	58.0	85.0	99.6	96.0
55	Holmes Utility Hybrid 35.....	97.5	90.0	7.7	22.9	76.0	111.4	90.9	96.0
57	*Pioneer Hi-Bred 307.....	107.6	97.9	9.0	21.9	58.0	85.0	98.9	95.4
58	Stiegelmeier Hybrid 365.....	104.8	99.1	5.4	22.7	54.0	79.2	100.1	94.9
58	Producers' Hybrid 44-1.....	102.4	95.2	7.0	20.1	62.0	90.9	96.2	94.9
60	†Illinois Hybrid 805.....	107.3	101.1	5.8	21.3	48.0	70.4	102.1	94.2
61	Pioneer Hi-Bred 313.....	111.8	106.4	4.8	21.9	34.0	49.9	107.5	93.1
62	Kelly Hybrid K-100.....	102.9	92.4	10.2	21.0	62.0	90.9	93.3	92.7
63	Crow Hybrid 501 (W).....	97.3	91.4	6.1	23.1	50.0	73.3	92.3	87.6
64	Station Yellow Dent.....	90.9	87.4	3.9	23.7	40.0	58.7	88.3	80.9
Average of all entries.....		105.1	99.0	5.8	21.0	68.2	....	....	....

*Less than 5 bushels of seed sampled. †Hand-pollinated hybrid checks.

A difference of less than 7.6 bushels between total yields of any two entries in this table is not significant.

Table 23.—EAST-CENTRAL ILLINOIS: Paxton Summaries

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
(A) Average yield of entries grown in 1940 and 1941									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 960.....	89.3	86.4	2.7	20.0	80.5	101.4	109.5	107.5
2	M-L Hybrid 523 (Moews-Lowe).....	84.9	82.7	2.4	20.5	89.0	112.1	104.8	106.6
3	Pioneer Hi-Bred 313.....	94.6	90.6	4.0	22.5	63.5	80.0	114.8	106.1
4	M-L Hybrid 514 (Moews-Lowe).....	85.8	82.7	3.2	18.8	87.0	109.6	104.8	106.0
5	Pioneer Hi-Bred 307.....	90.9	85.3	5.5	20.4	77.5	97.6	108.1	105.5
6	U. S. Hybrid 13.....	85.6	81.7	4.0	20.6	85.5	107.7	103.5	104.6
7	Stiegelmeier Hybrid 44.....	89.7	84.6	4.8	21.9	76.5	96.3	107.2	104.5
8	Seeber Hybrid 11B.....	84.8	82.5	2.4	21.7	82.5	103.9	104.6	104.4
9	Pioneer Hi-Bred 336.....	86.3	81.1	5.3	20.8	86.5	108.9	102.8	104.3
10	Pioneer Hi-Bred 333.....	85.9	82.0	4.3	20.5	83.5	105.2	103.9	104.2
11	Stiegelmeier Hybrid 901.....	84.9	80.4	4.6	20.2	87.5	110.2	101.9	104.0
12	Hoosier-Crost Hybrid 668-L.....	84.7	80.8	4.0	21.8	84.5	106.4	102.4	103.4
13	Illinois Hybrid 206.....	80.8	78.4	2.7	20.4	87.0	109.6	99.4	102.0
14	Pioneer Hi-Bred 300.....	85.8	78.9	6.9	21.7	84.5	106.4	100.0	101.6
15	U. S. Hybrid 44.....	81.5	78.8	3.0	20.7	82.0	103.3	99.9	100.8
16	Sibley Farms Hybrid S73.....	83.2	81.2	2.3	21.5	74.0	93.2	102.9	100.5
16	Illinois Hybrid 247.....	83.9	78.6	5.2	20.6	82.0	103.3	99.6	100.5
16	Pioneer Hi-Bred 332.....	81.1	76.4	4.7	23.5	88.5	111.5	96.8	100.5
19	Illinois Hybrid 600.....	81.9	78.8	3.5	21.5	80.0	100.8	99.9	100.1
20	Sibley Farms Hybrid S75.....	81.4	78.8	2.8	20.8	78.5	98.9	99.9	99.7
21	Illinois Hybrid 21.....	79.7	75.6	4.6	20.5	88.0	110.8	95.8	99.6
22	Kelly Hybrid K-374.....	80.9	76.4	5.6	19.9	85.0	107.0	96.8	99.4
23	Crow Hybrid 804.....	80.7	78.2	2.8	20.7	78.0	98.2	99.1	98.9
24	Sibley Farms Hybrid 753B.....	75.9	72.7	3.4	20.4	85.5	107.7	92.1	96.0
25	Kelly Hybrid K-99.....	77.9	72.6	6.9	20.6	84.5	106.4	92.0	95.6
26	Crow Hybrid 607.....	79.3	74.6	5.3	21.6	77.5	97.6	94.5	95.3
27	Crow Hybrid 608.....	83.2	81.5	1.9	20.1	41.9	52.8	103.3	90.7
28	Crow Hybrid 501 (W).....	68.7	64.9	5.2	22.0	67.0	84.4	82.3	82.8
29	Station Yellow Dent.....	61.6	59.7	2.4	23.8	56.0	70.5	75.7	74.4
Average of all entries.....		82.6	78.9	4.0	21.0	79.4	....	....	....
(B) Average yield of entries grown in 1939, 1940, 1941									
1	Pioneer Hi-Bred 313.....	89.6	86.3	3.5	19.3	75.7	88.7	111.8	106.0
2	Illinois Hybrid 960.....	84.9	82.4	2.5	17.8	85.3	100.0	106.7	105.0
3	Pioneer Hi-Bred 307.....	86.3	82.0	4.4	17.9	84.3	98.8	106.2	104.4
4	Hoosier-Crost Hybrid 668-L.....	82.7	79.1	3.9	19.0	89.0	104.3	102.5	103.0
4	M-L Hybrid 514 (Moews-Lowe).....	82.5	78.5	4.6	17.0	91.3	107.0	101.7	103.0
6	U. S. Hybrid 13.....	81.8	78.0	4.2	18.3	90.3	105.9	101.0	102.2
7	Stiegelmeier Hybrid 44.....	83.7	80.2	3.4	18.9	82.3	96.5	103.9	102.1
8	Crow Hybrid 608.....	79.0	77.5	1.7	17.8	90.3	105.9	100.4	101.8
9	U. S. Hybrid 44.....	80.5	77.8	2.9	18.2	87.8	102.9	100.8	101.3
9	Illinois Hybrid 206.....	78.7	77.0	2.0	18.0	90.3	105.9	99.7	101.3
11	Stiegelmeier Hybrid 901.....	80.5	76.6	4.3	17.9	90.7	106.3	99.2	101.0
12	Kelly Hybrid K-374.....	79.7	75.4	5.3	17.7	88.7	104.0	97.7	99.3
13	Sibley Farms Hybrid 753B.....	77.3	74.9	2.6	18.4	88.7	104.0	97.0	98.8
14	Crow Hybrid 607.....	79.1	75.3	4.5	18.7	83.0	97.3	97.5	97.5
15	Crow Hybrid 804.....	77.4	74.6	3.5	18.4	83.3	97.7	96.6	96.9
16	Station Yellow Dent.....	62.9	60.1	3.8	20.4	63.7	74.7	77.8	77.0
Average of all entries.....		80.4	77.2	3.6	18.4	85.3	....	....	....
(C) Average yield of entries grown in 1938, 1939, 1940, 1941									
1	Pioneer Hi-Bred 313.....	82.5	79.8	3.0	18.0	75.1	93.3	112.1	107.4
2	Pioneer Hi-Bred 307.....	79.5	75.3	4.9	17.6	83.6	103.8	105.8	105.3
3	U. S. Hybrid 44.....	75.4	72.7	3.6	17.1	88.3	109.7	102.1	104.0
3	U. S. Hybrid 13.....	75.2	72.2	3.5	17.5	90.1	111.9	101.4	104.0
5	Illinois Hybrid 960.....	78.1	75.9	2.4	16.6	72.0	89.4	106.6	102.3
6	Crow Hybrid 608.....	70.9	69.6	1.6	16.9	88.4	109.8	97.8	100.8
7	Crow Hybrid 804.....	71.6	69.4	2.8	17.3	80.0	99.4	97.5	98.0
8	Station Yellow Dent.....	57.0	54.9	3.2	19.3	66.1	82.1	77.1	78.4
Average of all entries.....		73.8	71.2	3.1	17.5	80.5	....	....	....
(D) Average yield of entries grown in 1937, 1938, 1939, 1940, 1941									
1	Illinois Hybrid 960.....	78.3	76.5	2.0	16.5	85.4	104.1	108.5	107.4
2	Pioneer Hi-Bred 307.....	78.3	75.1	3.7	16.3	86.2	105.1	106.5	106.2
3	U. S. Hybrid 44.....	75.3	73.1	2.9	17.0	88.8	108.3	103.7	104.9
4	Station Yellow Dent.....	59.0	57.2	2.6	19.1	67.6	82.4	81.1	81.4
Average of all entries.....		72.7	70.5	2.8	17.2	82.0	....	....	....

Table 24.—EAST-CENTRAL ILLINOIS: Paxton, Resistance to Lodging Caused by Feeding of Southern Corn Rootworms¹

Rank	Entry	Plants leaning 30 degrees or more ²	Plants leaning more than 45 degrees	Resistance rating com- pared with average ³
1941		<i>percl.</i>	<i>percl.</i>	
1	Iowearth Hybrid AQ1	28.7	1.4	218
2	Bear Hybrid OK-116	33.0	1.3	194
3	Hoosier-Crost Hybrid 746	38.9	1.0	168
4	Holmes Utility Hybrid 35	39.2	.9	168
5	Pioneer Hi-Bred 332	44.5	0	155
6	M-L Hybrid 523 (Moews-Lowe)	43.6	1.0	151
7	Farmcraft Hybrid 81	47.0	.3	145
8	Illinois Hybrid 960	49.0	0	141
9	Illinois Hybrid 21 (Frey)	47.0	1.3	139
10	Hoosier-Crost Hybrid 668-L	46.6	1.9	137
11	Kelly Hybrid K-99	50.2	.6	134
12	Crow Hybrid 608	51.6	.6	131
13	Seeber Hybrid 11B	54.7	0	126
14	Bear Hybrid OK-69	56.3	.6	120
15	Durst Hybrid 23	55.6	1.6	117
16	U. S. Hybrid 44 (Frey)	58.6	.3	117
17	Funk Hybrid G-102	55.8	1.9	116
18	Farmcraft Hybrid 89	56.4	2.2	113
19	Iowearth Hybrid 25A	53.2	3.9	113
20	Ferris Hybrid 9	57.1	2.1	112
21	Crow Hybrid 805	55.2	3.5	111
22	Illinois Hybrid 600 (Station)	58.9	1.9	110
23	Funk Hybrid G-70	57.9	2.3	110
24	M-L Hybrid 860 (Moews-Lowe)	59.2	2.4	108
25	Null Hybrid N-54	63.2	.6	107
26	National Hybrid 129A	57.6	3.5	107
27	Kelly Hybrid K-100	59.9	2.6	106
28	U. S. Hybrid 13 (Frey)	58.8	3.2	106
29	Sibley Farms Hybrid 753B	62.9	1.3	105
30	M-L Hybrid 514 (Moews-Lowe)	59.3	3.3	105
31	Null-Vollmer Hybrid NV-10 (Vollmer)	57.0	4.4	105
32	Sass Hybrid 20 (L. A. Sass)	56.1	4.9	105
33	Crow Hybrid 633	63.9	1.3	104
34	Illinois Hybrid 247	63.5	1.9	102
35	Illinois Hybrid 716 (Station)	60.9	3.3	102
36	Stiegelmeier Hybrid 365	60.4	3.7	102
37	Pioneer Hi-Bred 300	66.8	.9	101
38	Sibley Farms Hybrid S75	64.2	2.5	100
39	Pioneer Hi-Bred 333	62.5	3.3	100
40	Null Hybrid N-49	67.1	3.4	99
41	U. S. Hybrid 13	63.9	3.3	98
42	Pioneer Hi-Bred 336	69.5	.6	97
43	Kelly Hybrid K-374	65.3	2.7	97
44	Bear Hybrid OK-117	64.0	3.4	97
45	Producers' Hybrid FCXX	67.7	2.9	94
46	Illinois Hybrid 206	71.1	1.3	93
47	Stiegelmeier Hybrid 901	69.4	3.8	90
48	Funk Hybrid G-73	69.6	3.8	89
49	Funk Hybrid G-72	74.3	2.8	86
50	Illinois Hybrid 805	73.2	3.8	85
51	Sibley Farms Hybrid S73	73.5	4.0	85
52	Pioneer Hi-Bred 307	80.5	.9	84
53	Null-Vollmer Hybrid NV-34 (Vollmer)	76.9	3.9	81
54	Crow Hybrid 804	72.0	7.2	80
55	Stiegelmeier Hybrid 903	81.2	2.9	79
56	Funk Hybrid G-103	75.0	6.0	79
57	Bear Hybrid OK-66	80.2	5.4	76
58	Stiegelmeier Hybrid 44	87.7	3.6	73
59	Crow Hybrid 607	86.6	3.9	73
60	Producers' Hybrid 44-1	81.5	6.2	73
61	Durst Hybrid 14	84.0	10.1	66
62	Station Yellow Dent	90.1	13.4	59
63	Pioneer Hi-Bred 313	91.4	13.7	58
64	Crow Hybrid 501 (W)	85.0	16.7	58
Average of all entries		62.8	3.1	100

¹*Diabrotica duodecimpunctata* (F.) and *Diabrotica longicornis* (Say). ²A difference of less than 5.1 in this column is not significant. ³High rating indicates better standing ability.

Table 25.—EAST SOUTH-CENTRAL ILLINOIS: Sullivan

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
	1941	bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	¹ Henley & Whisnand Hyb. 831 (Whis.)	107.9	106.5	1.3	18.4	90.0	117.0	107.6	110.0
2	Henley & Whisnand Hyb. 883 (Hen.)	110.9	106.9	3.6	18.7	88.3	114.8	108.0	109.7
3	Illinois Hybrid 501 (I.H.P.)	105.8	103.7	2.0	17.0	95.0	123.5	104.7	109.4
4	Bear Hybrid OK-66	107.3	106.0	1.2	17.2	88.3	114.8	107.1	109.0
5	Bear Hybrid OK-69	105.1	103.4	1.6	17.3	93.3	121.3	104.4	108.6
6	[†] Ill. Hybrid 2077A (W) (Station)	111.8	108.2	3.2	16.9	81.7	106.2	109.3	108.5
7	[†] Illinois Hybrid 2059 (W) (Station)	110.8	106.8	3.6	18.7	83.3	108.3	107.9	108.0
8	¹ Crow Hybrid 805	106.5	102.9	3.4	18.7	92.0	119.6	103.9	107.8
9	Henley & Whisnand Hyb. 815 (Hen.)	105.4	102.4	2.8	17.0	90.0	117.0	103.4	106.8
10	E. W. Doubet Hybrid D53	107.4	103.5	3.6	18.1	86.7	112.7	104.5	106.6
11	Null Hybrid N-95	106.3	102.5	3.6	19.0	88.3	114.8	103.5	106.3
12	[*] Producers' Hybrid 1000	107.6	104.2	3.2	17.8	83.3	108.3	105.3	106.1
12	Bear Hybrid OK-40	107.9	103.6	4.0	16.9	85.0	110.5	104.6	106.1
14	[†] Illinois Hybrid 206 (Henley)	108.8	106.6	2.0	17.7	76.7	99.7	107.7	105.7
14	Illinois Hybrid 200 (Powers)	108.6	103.8	4.4	20.1	83.3	108.3	104.8	105.7
16	[*] Illinois Hybrid 2015A (W) (Station)	110.6	109.3	1.2	17.8	70.0	91.0	110.4	105.6
17	[†] Illinois Hybrid 877	113.2	109.4	3.4	19.9	68.3	88.8	110.5	105.1
18	Pioneer Hi-Bred 300	105.9	102.1	3.6	18.5	85.0	110.5	103.1	105.0
19	[*] Pioneer Hi-Bred 332	110.8	107.3	3.2	18.7	71.7	93.2	108.4	104.6
19	Pfeifer Hybrid A-1-40	108.6	105.1	3.2	19.8	76.7	99.7	106.2	104.6
21	Crow Hybrid 603	103.1	100.4	2.6	17.4	86.7	112.7	101.4	104.2
22	Farmcraft Hybrid 81	100.1	99.2	.9	16.7	88.3	114.8	100.2	103.9
23	Iowahealth Hybrid 29A	106.4	103.4	2.8	18.2	78.3	101.8	104.4	103.8
23	E. W. Doubet Hybrid D54	108.4	100.6	7.2	20.1	85.0	110.5	101.6	103.8
25	Pioneer Hi-Bred 336	104.7	101.8	2.8	18.5	81.7	106.2	102.8	103.7
26	[*] Pioneer Hi-Bred 334	104.4	102.5	1.8	18.3	80.0	104.0	103.5	103.6
27	U. S. Hybrid 13 (Pfeifer)	105.6	101.6	3.8	18.3	81.7	106.2	102.6	103.5
27	[*] Durst Hybrid 46	102.5	100.9	1.6	19.3	83.3	108.3	101.9	103.5
29	Henley & Whisnand Hyb. 834 (Whis.)	106.2	101.5	4.4	17.8	80.0	104.0	102.5	102.9
30	Illinois Hybrid 784 (Pfeifer)	107.7	103.6	3.8	19.2	73.3	95.3	104.6	102.3
31	¹ Macon Hybrid 666	101.3	96.8	4.4	18.5	88.0	114.4	97.8	102.0
32	U. S. Hybrid 13 (Macon)	101.1	99.4	1.7	17.4	81.7	106.2	100.4	101.9
33	[†] Illinois Hybrid 200	110.5	107.0	3.2	18.3	63.3	82.3	108.1	101.7
34	Funk Hybrid G-147	103.7	102.0	1.6	17.9	71.7	93.2	103.0	100.6
34	Iowahealth Hybrid AQz	100.9	95.5	5.4	17.8	86.7	112.7	96.5	100.6
36	[†] Illinois Hybrid 784	105.1	101.1	3.8	20.3	71.7	93.2	102.1	99.9
37	Null Hybrid N-61	105.0	101.0	3.8	19.8	71.7	93.2	102.0	99.8
38	[*] Funk Hybrid G-139	98.5	96.1	2.4	23.2	81.7	106.2	97.1	99.4
●	Average of 5 hybrid checks	107.6	103.2	4.1	19.8	64.7	84.1	104.3	99.2
39	Illinois Hybrid 200 (Macon)	101.8	97.7	4.0	18.9	76.7	99.7	98.7	99.0
40	Crow Hybrid 608	99.3	96.1	3.2	17.3	80.0	104.0	97.1	98.8
41	[*] M-L Hybrid 860 (Moews-Lowe)	102.0	95.9	6.0	20.6	80.0	104.0	96.9	98.7
42	[*] Bear Hybrid OK-36	101.8	98.7	3.0	18.3	73.3	95.3	99.7	98.6
43	[*] Illinois Hybrid 2049 (W) (Station)	104.9	99.0	5.6	18.9	71.7	93.2	100.0	98.3
44	[*] Illinois Hybrid 2020 (W) (Station)	100.6	95.0	5.6	19.5	80.0	104.0	96.0	98.0
45	Crow Hybrid 607	95.3	93.2	2.2	18.7	81.7	106.2	94.1	97.1
46	[*] Bear Hybrid OK-32	98.8	98.0	.8	17.4	70.0	91.0	99.0	97.0
47	Illinois Hybrid 200 (Whisnand)	97.5	91.5	6.2	19.7	85.0	110.5	92.4	96.9
48	¹ Crow Hybrid 806	103.3	98.5	4.6	19.9	68.0	88.4	99.5	96.7
49	Pioneer Hi-Bred 333	98.3	91.6	6.8	18.1	83.3	108.3	92.5	96.5
50	Illinois Hybrid 784 (Whisnand)	101.8	99.4	2.4	20.3	65.0	84.5	100.4	96.4
51	Crow Hybrid 701 (W)	99.0	96.1	2.9	20.4	71.7	93.2	97.1	96.1
52	[†] Illinois Hybrid 805	105.0	100.6	4.2	19.8	60.0	78.0	101.6	95.7
53	[*] Funk Hybrid G-103	102.4	96.9	5.4	19.6	68.3	88.8	97.9	95.6
54	Rice White Dent	100.5	96.5	4.0	19.9	66.7	86.7	97.5	94.8
55	Pioneer Hi-Bred 337	97.8	94.9	3.0	21.8	68.3	88.8	95.9	94.1
56	Funk Hybrid G-46	95.7	93.4	2.4	20.3	71.7	93.2	94.3	94.0
57	[†] Illinois Hybrid 885A	104.4	98.1	6.0	20.9	60.0	78.0	99.1	93.8
58	M-L Hybrid 830 (Moews-Lowe)	93.6	88.0	6.0	22.1	81.7	106.2	88.9	93.2
59	Pioneer Hi-Bred 313	103.8	99.6	4.0	20.9	51.7	67.2	100.6	92.3
60	M-L Hybrid 850 (Moews-Lowe)	95.4	90.1	5.6	19.8	66.7	86.7	91.0	89.9
60	Crow Hybrid 804	87.1	82.9	4.8	18.2	83.3	108.3	83.7	89.9
●	Average of 5 open-pollinated var.	92.1	88.6	3.8	19.9	58.7	76.4	89.5	86.3
62	Canterbury Yellow Dent	90.7	88.0	3.0	19.7	60.0	78.0	88.9	86.2
63	Wilson Yellow Dent	96.6	93.1	3.6	20.3	45.0	58.5	94.0	85.1
64	Farmcraft Hybrid 132 (W)	82.6	80.3	2.8	20.6	70.0	91.0	81.1	83.6
65	Station Yellow Dent	93.7	87.5	6.6	20.2	50.0	65.0	88.4	82.6
66	¹ Shuman Golden Beauty	79.0	77.7	1.6	19.6	72.0	93.6	78.5	82.3
Average of all entries		102.7	99.0	3.5	19.0	76.9	...	...	...

^{*}Less than 5 bushels of seed sampled. [†]Hand-pollinated hybrid checks. ¹Average of 5 plots instead of 6.

A difference of less than 6.7 bushels between total yields of any two entries in this table is not significant.

Table 26.—EAST SOUTH-CENTRAL ILLINOIS: Sullivan Summaries

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
(A) Average yields of entries grown in 1940 and 1941									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Pioneer Hi-Bred 300.....	95.7	93.4	2.3	17.8	92.0	106.7	111.6	110.4
2	Pioneer Hi-Bred 332.....	94.0	92.1	1.8	19.5	85.9	99.7	110.0	107.4
3	Henley & Whisnand Hybrid 883 (Hen.)	92.0	89.4	2.5	18.1	93.7	108.7	106.8	107.3
4	U. S. Hybrid 13.....	91.2	89.5	1.7	17.5	90.9	105.5	106.9	106.6
5	Null Hybrid N-61.....	92.4	90.3	2.1	17.9	85.4	99.1	107.9	105.7
6	Illinois Hybrid 877.....	92.3	90.1	2.1	19.2	84.2	97.7	107.6	105.1
7	Iowaleth Hybrid 29A.....	89.9	88.0	2.0	18.0	89.2	103.5	105.1	104.7
8	Macon Hybrid 666.....	89.2	86.3	3.1	17.5	94.0	109.0	103.1	104.6
9	Henley & Whisnand Hybrid 834 (Whis.)	90.4	87.5	2.9	18.1	89.5	103.8	104.5	104.3
10	Illinois Hybrid 200.....	89.9	87.4	2.6	18.4	88.6	102.8	104.4	104.0
11	Pioneer Hi-Bred 333.....	88.9	84.9	4.2	17.3	91.7	106.4	101.4	102.7
12	Pioneer Hi-Bred 313.....	93.4	89.9	3.7	20.3	75.9	88.1	107.4	102.6
13	Illinois Hybrid 784.....	88.1	86.0	2.2	20.3	84.2	97.7	102.7	101.5
14	Illinois Hybrid 885A.....	90.3	87.1	3.1	19.6	80.0	92.8	104.1	101.3
15	Funk Hybrid G-46.....	84.4	83.2	1.3	19.3	85.9	99.7	99.4	99.5
16	Crow Hybrid 806.....	85.2	82.7	2.5	20.3	83.0	96.3	98.8	98.2
17	M-L Hybrid 830 (Moews-Lowe).....	81.4	78.3	3.4	19.8	90.9	105.5	93.5	96.5
18	Crow Hybrid 701 (W).....	81.2	79.7	1.6	19.4	85.9	99.7	95.2	96.3
19	Crow Hybrid 607.....	78.9	77.3	1.9	18.3	90.9	105.5	92.4	95.7
20	Crow Hybrid 804.....	77.8	75.6	2.6	18.1	91.7	106.4	90.3	94.3
21	Rice White Dent.....	79.0	76.9	2.1	19.2	80.9	93.9	91.9	92.4
22	Wilson Yellow Dent.....	78.0	76.1	2.1	20.2	69.5	80.6	90.9	88.3
23	Canterbury Yellow Dent.....	73.5	72.2	1.5	19.9	79.5	92.2	86.3	87.8
●	Average of 5 open-pollinated varieties	73.6	71.7	2.1	19.7	77.9	90.4	85.7	86.9
24	Shuman Golden Beauty.....	65.6	64.8	1.0	19.1	85.5	99.2	77.4	82.9
	Average of all entries.....	85.9	83.7	2.3	18.9	86.2	....	....	....
(B) Average yields of entries grown in 1939, 1940, 1941									
1	Illinois Hybrid 877.....	96.7	94.9	1.7	17.4	84.9	100.7	110.1	107.8
2	Null Hybrid N-61.....	95.5	93.9	1.5	16.4	87.6	103.9	108.9	107.7
3	U. S. Hybrid 13.....	93.4	91.7	1.7	16.3	92.6	109.8	106.4	107.3
4	Illinois Hybrid 200.....	93.9	91.5	2.4	16.7	89.0	105.6	106.1	106.0
5	Illinois Hybrid 784.....	93.0	90.8	2.2	18.7	86.0	102.0	105.3	104.5
6	Illinois Hybrid 885A.....	95.0	91.9	3.0	17.4	81.7	96.9	106.6	104.2
7	Pioneer Hi-Bred 313.....	94.3	91.7	2.8	18.1	79.9	94.8	106.4	103.5
8	Crow Hybrid 806.....	90.9	88.7	2.1	18.8	84.3	100.0	102.9	102.2
9	Funk Hybrid G-46.....	88.2	86.4	1.8	17.7	88.2	104.6	100.2	101.3
10	Rice White Dent.....	84.1	81.9	2.2	17.6	80.6	95.6	95.0	95.2
11	Crow Hybrid 701 (W).....	82.6	81.0	1.8	18.5	82.9	98.3	94.0	95.1
12	Crow Hybrid 804.....	80.5	78.1	2.8	17.5	91.4	108.4	90.6	95.1
13	Wilson Yellow Dent.....	82.9	81.2	1.9	18.3	73.0	86.6	94.2	92.3
14	Canterbury Yellow Dent.....	79.3	77.7	1.8	18.1	79.3	94.1	90.1	91.1
●	Average of 5 open-pollinated varieties	79.5	77.7	2.0	18.0	78.3	92.9	90.1	90.8
15	Shuman Golden Beauty.....	71.6	70.9	.9	17.4	83.3	98.8	82.3	86.4
	Average of all entries.....	88.1	86.2	2.0	17.7	84.3	....	....	....
(C) Average yields of entries grown in 1938, 1939, 1940, 1941									
1	Illinois Hybrid 784.....	90.7	88.2	2.6	19.0	82.7	106.4	111.6	110.3
2	Pioneer Hi-Bred 313.....	91.1	89.1	2.1	18.3	71.2	91.6	112.8	107.5
3	Funk Hybrid G-46.....	84.5	82.4	2.4	18.0	82.9	106.7	104.3	104.9
4	Crow Hybrid 701 (W).....	78.4	77.0	1.6	18.3	78.2	100.6	97.5	98.3
5	Rice White Dent.....	79.8	78.0	1.9	17.6	75.1	96.7	98.7	98.2
6	Crow Hybrid 804.....	77.4	75.3	2.6	17.4	82.3	105.9	95.3	98.0
7	Wilson Yellow Dent.....	79.4	77.5	2.4	18.4	71.6	92.1	98.1	96.6
8	Canterbury Yellow Dent.....	77.0	75.7	1.4	18.4	76.0	97.8	95.8	96.3
●	Average of 5 open-pollinated varieties	76.5	75.0	1.8	18.0	74.7	96.1	94.9	95.2
9	Shuman Golden Beauty.....	68.3	67.7	.8	17.5	79.0	101.7	85.7	89.7
	Average of all entries.....	80.7	79.0	2.0	18.1	77.7	....	....	....
(D) Average yields of entries grown in 1937, 1938, 1939, 1940, 1941									
1	Funk Hybrid G-46.....	90.1	88.4	2.0	18.3	82.9	110.8	108.2	108.9
2	Rice White Dent.....	85.9	84.5	1.5	18.1	69.4	92.8	103.4	100.8
●	Average of 5 open-pollinated varieties	82.1	80.8	1.5	18.3	69.1	92.4	98.9	97.3
3	Shuman Golden Beauty.....	72.7	72.2	.6	18.2	72.0	96.3	88.4	90.4
	Average of all entries.....	82.9	81.7	1.4	18.2	74.8	....	....	....

Table 27.—WEST SOUTH-CENTRAL ILLINOIS: Greenfield

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
	1941	<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Null Hybrid N-54.....	125.5	121.0	3.6	17.7	95.0	108.8	110.1	109.8
2	*Huey Hybrid 20 (Huey Seed Co.)...	121.2	119.0	1.8	15.8	95.0	108.8	108.3	108.4
3	†Illinois Hybrid 784.....	125.3	122.3	2.4	20.0	83.3	95.4	111.3	107.3
4	Bear Hybrid OK-66.....	119.5	118.3	1.0	16.7	91.7	105.0	107.6	107.0
5	Bear Hybrid OK-69.....	119.2	115.6	3.0	17.4	96.7	110.8	105.2	106.6
6	*Bear Hybrid OK-115.....	118.8	115.7	2.6	17.1	95.0	108.8	105.3	106.2
6	Null-Vollmer Hybrid NV-57 (Voll.)..	117.2	115.0	1.9	17.8	96.7	110.8	104.6	106.2
8	Crow Hybrid 603.....	116.6	115.1	1.3	16.3	93.3	106.9	104.7	105.3
9	*Pioneer Hi-Bred 332.....	118.6	114.6	3.4	18.5	93.3	106.9	104.3	105.0
10	*Pioneer Hi-Bred 334.....	117.5	114.3	2.7	17.2	93.3	106.9	104.0	104.7
11	Funk Hybrid G-89.....	120.8	118.9	1.6	21.0	81.7	93.6	108.2	104.6
12	*Bear Hybrid OK-37.....	117.2	115.4	1.5	17.4	90.0	103.1	105.0	104.5
12	Illinois Hybrid 200 (Wilson).....	116.7	114.6	1.8	18.1	91.7	105.0	104.3	104.5
14	M-L Hybrid 900 (Moews-Lowe).....	115.9	114.9	.9	18.0	90.0	103.1	104.5	104.2
15	*Illinois Hybrid 863A (Station).....	116.9	115.4	1.3	18.5	88.3	101.1	105.0	104.0
16	Null-Vollmer Hybrid NV-34 (Voll.)..	117.8	115.8	1.7	18.2	86.7	99.3	105.4	103.9
16	*Illinois Hybrid 288 (Station).....	116.5	113.7	2.4	19.0	91.7	105.0	103.5	103.9
18	Iowaleth Hybrid TX 2.....	117.2	113.0	3.6	20.8	91.7	105.0	102.8	103.4
19	U. S. Hybrid 13 (Pfeifer).....	112.6	111.0	1.4	17.9	95.0	108.8	101.0	103.0
20	*Null-Vollmer Hybrid NV-58 (Voll.)..	117.1	114.8	2.0	18.1	85.0	97.4	104.5	102.7
21	†Illinois Hybrid 877.....	120.3	117.5	2.3	19.8	78.3	89.7	106.9	102.6
21	†Illinois Hybrid 200.....	116.3	113.3	2.6	18.7	88.3	101.1	103.1	102.6
23	Null-Vollmer Hybrid NV-84 (Voll.)..	114.1	111.7	2.1	18.5	91.7	105.0	101.6	102.5
●	Average of 5 hybrid checks.....	118.1	115.2	2.5	19.1	82.3	94.3	105.0	102.3
24	Null Hybrid N-38.....	115.4	111.9	3.0	18.1	90.0	103.1	101.8	102.1
25	Pioneer Hi-Bred 336.....	112.8	110.1	2.4	17.1	93.3	106.9	100.2	101.9
26	Pioneer Hi-Bred 300.....	115.8	112.4	2.9	17.3	86.7	99.3	102.3	101.6
26	Null-Vollmer Hybrid NV-29 (Voll.)..	111.7	110.4	1.2	17.0	91.7	105.0	100.5	101.6
28	*Null Hybrid N-93.....	117.7	113.8	3.3	20.1	83.3	95.4	103.5	101.5
29	Pioneer Hi-Bred 313.....	115.9	112.1	3.3	18.7	86.7	99.3	102.0	101.3
30	†Illinois Hybrid 885A.....	115.4	112.6	2.4	18.6	83.3	95.4	102.5	100.7
31	M-L Hybrid 830 (Moews-Lowe).....	111.8	107.9	3.5	18.5	93.3	106.9	98.2	100.4
32	*Wilson Hybrid 194.....	114.9	112.4	2.2	19.6	81.7	93.6	102.3	100.1
33	Funk Hybrid G-102.....	111.1	107.4	3.3	18.0	93.3	106.9	97.7	100.0
34	*Null Hybrid N-17.....	111.5	108.9	2.3	18.4	88.3	101.1	99.1	99.6
35	E. W. Doubet Hybrid D53.....	112.8	109.4	3.0	18.7	86.7	99.3	99.5	99.5
36	Iowaleth Hybrid AQ.....	108.7	107.8	.8	18.6	90.0	103.1	98.1	99.4
37	*Illinois Hybrid 126 (Station).....	111.9	108.8	2.8	18.4	86.7	99.3	99.0	99.1
37	M-L Hybrid 523 (Moews-Lowe).....	107.6	105.3	2.1	17.5	95.0	108.8	95.8	99.1
39	E. W. Doubet Hybrid D54.....	111.0	105.8	4.7	18.8	93.3	106.9	96.3	99.0
40	*Funk Hybrid G-103.....	113.5	109.8	3.3	19.3	83.3	95.4	99.9	98.8
41	Funk Hybrid G-147.....	112.3	111.0	1.2	18.1	80.0	91.6	101.0	98.7
42	Crow Hybrid 805.....	108.1	106.0	1.9	17.4	91.7	105.0	96.5	98.6
43	*Funk Hybrid G-139.....	111.7	109.5	2.0	21.1	81.7	93.6	99.6	98.1
44	†Illinois Hybrid 805.....	113.3	110.1	2.8	18.6	78.3	89.7	100.2	97.6
45	Crow Hybrid 608.....	106.3	103.7	2.4	16.3	93.3	106.9	94.4	97.5
46	U. S. Hybrid 13 (Wilson).....	107.1	102.5	4.3	17.7	95.0	108.8	93.3	97.2
47	Pioneer Hi-Bred 333.....	108.6	103.4	4.8	17.4	91.7	105.0	94.1	96.8
48	Crow Hybrid 607.....	104.2	102.5	1.6	17.3	91.7	105.0	93.3	96.2
49	Crow Hybrid 806.....	111.1	107.9	2.9	19.4	78.3	89.7	98.2	96.1
50	Pioneer Hi-Bred 337.....	106.3	104.5	1.7	20.6	85.0	97.4	95.1	95.7
51	Crow Hybrid 701 (W).....	106.4	104.3	2.0	18.4	76.7	87.9	94.9	93.2
52	Rice White Dent.....	108.8	106.1	2.5	19.3	70.0	80.2	96.5	92.4
53	Crow Hybrid 804.....	97.3	95.3	2.1	17.8	90.0	103.1	86.7	90.8
54	Canterbury Yellow Dent.....	97.9	96.9	1.0	19.8	71.7	82.1	88.2	86.7
●	Average of 5 open-pollinated varieties	97.8	95.5	2.3	19.2	70.0	80.2	87.1	85.4
55	Wilson Yellow Dent.....	98.9	96.1	2.8	19.7	66.7	76.4	87.4	84.7
56	Station Yellow Dent.....	97.5	94.6	3.0	18.9	68.3	78.2	86.1	84.1
57	Shuman Golden Beauty.....	85.8	83.9	2.2	18.3	73.3	84.0	76.3	78.2
	Average of all entries.....	112.6	109.9	2.4	18.4	87.3	....	....	....

*Less than 5 bushels of seed sampled. †Hand-pollinated hybrid checks.

A difference of less than 8.8 bushels between total yields of any two entries in this table is not significant.

**Table 28.—WEST SOUTH-CENTRAL ILLINOIS: Greenfield,
Two-Year Summary**

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
1941		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Pioneer Hi-Bred 313.....	107.7	105.7	1.8	19.0	91.9	101.4	112.8	110.0
1	Pioneer Hi-Bred 300.....	107.7	105.4	2.1	16.6	92.9	102.5	112.5	110.0
3	Pioneer Hi-Bred 332.....	106.1	103.7	2.0	19.0	96.7	106.7	110.7	109.7
4	Iowaleth Hybrid TX 2.....	104.7	102.5	1.9	20.4	95.4	105.3	109.4	108.4
5	Illinois Hybrid 200.....	102.6	101.3	1.2	17.2	95.0	104.9	108.1	107.3
6	U. S. Hybrid 13.....	102.9	100.4	1.9	17.1	97.5	107.6	107.1	107.2
7	Illinois Hybrid 885A.....	103.6	101.7	1.8	17.9	88.7	97.9	108.5	105.9
8	M-L Hybrid 523 (Moews-Lowe)....	99.2	97.7	1.4	17.1	97.5	107.6	104.3	105.1
9	Illinois Hybrid 805.....	102.2	100.1	2.0	17.3	88.7	97.9	106.8	104.6
10	Illinois Hybrid 784.....	100.1	98.0	1.9	19.5	91.2	100.7	104.6	103.6
11	Illinois Hybrid 877.....	100.3	98.8	1.2	19.7	86.7	95.7	105.4	103.0
12	Pioneer Hi-Bred 333.....	98.1	95.1	2.9	16.6	95.4	105.3	101.5	102.5
13	M-L Hybrid 830 (Moews-Lowe)....	96.4	94.0	2.3	17.8	96.7	106.7	100.3	101.9
14	Crow Hybrid 806.....	92.0	89.9	2.2	19.3	89.2	98.5	95.9	96.6
15	Crow Hybrid 804.....	88.8	87.0	2.1	17.6	95.0	104.9	92.8	95.8
16	Crow Hybrid 701 (W).....	84.7	83.5	1.1	18.5	87.9	97.0	89.1	91.1
17	Rice White Dent.....	87.4	85.8	1.6	18.6	80.0	88.3	91.6	90.8
18	Canterbury Yellow Dent.....	77.4	76.8	.6	19.3	81.9	90.4	82.0	84.1
● Average of 5 open-pollinated varieties		77.5	76.2	1.3	18.9	81.2	89.6	81.3	83.4
19	Wilson Yellow Dent.....	78.2	76.7	1.5	20.0	78.9	87.1	81.9	83.2
20	Shuman Golden Beauty.....	71.0	70.0	1.3	17.5	84.7	93.5	74.7	79.4
Average of all entries.....		95.6	93.7	1.7	18.3	90.6	....	....	....

Table 29.—WEST SOUTH-CENTRAL ILLINOIS: Greenfield, Resistance to Lodging Caused by Feeding of Southern Corn Rootworms¹

Rank	Entry	Plants leaning 30 degrees or more ²	Plants leaning more than 45 degrees	Resistance rating compared with average ³ (hybrids only)
1941		perct.	perct.	
1	Null Hybrid N-93.....	7.8	.3	257
2	Null Hybrid N-54.....	8.6	0	251
3	Bear Hybrid OK-115.....	8.4	.3	240
4	M-L Hybrid 523 (Moews-Lowe).....	8.6	.3	235
5	Bear Hybrid OK-66.....	9.5	0	225
6	Pioneer Hi-Bred 333.....	10.4	0	208
7	U. S. Hybrid 13 (Pfeifer).....	11.3	0	189
8	Illinois Hybrid 126 (Station).....	11.2	.7	171
9	Null-Vollmer Hybrid NV-84 (Vollmer).....	12.7	0	169
10	Null-Vollmer Hybrid NV-34 (Vollmer).....	11.3	.7	169
11	Null-Vollmer Hybrid NV-57 (Vollmer).....	12.7	.6	154
12	Ioweaith Hybrid AQ7.....	13.1	.7	148
13	Null-Vollmer Hybrid NV-29 (Vollmer).....	14.8	0	146
14	Illinois Hybrid 288 (Station).....	13.3	.7	146
15	Wilson Hybrid 194.....	13.6	.7	144
16	Funk Hybrid G-103.....	15.1	0	142
17	Null Hybrid N-38.....	15.2	0	142
18	Funk Hybrid G-102.....	11.1	2.0	142
19	Crow Hybrid 805.....	14.0	1.1	133
20	M-L Hybrid 900 (Moews-Lowe).....	16.5	0	130
21	Illinois Hybrid 863A (Station).....	13.9	1.4	129
22	Illinois Hybrid 200 (Wilson).....	17.3	0	124
23	Crow Hybrid 603.....	15.6	1.0	123
24	Funk Hybrid G-89.....	17.0	.6	119
25	Null-Vollmer Hybrid NV-58 (Vollmer).....	16.7	1.0	115
26	Funk Hybrid G-139.....	16.9	1.0	114
27	Pioneer Hi-Bred 334.....	17.8	.7	113
28	Illinois Hybrid 877.....	18.1	.6	111
29	Doubet Hybrid D54.....	18.3	.6	110
30	U. S. Hybrid 13 (Wilson).....	18.6	.7	108
31	Crow Hybrid 608.....	17.8	1.3	106
32	Doubet Hybrid D53.....	18.4	1.3	103
33	Pioneer Hi-Bred 336.....	20.2	.7	100
34	M-L Hybrid 830 (Moews-Lowe).....	19.5	1.0	100
35	Illinois Hybrid 885A.....	20.4	1.0	96
36	Pioneer Hi-Bred 332.....	21.5	.6	95
37	Huey Hybrid 20 (Huey Seed Co.).....	20.1	1.3	95
38	Null Hybrid N-17.....	23.0	0	94
39	Funk Hybrid G-147.....	22.4	1.0	89
40	Crow Hybrid 806.....	22.4	1.7	84
41	Illinois Hybrid 805.....	26.8	.3	79
42	Bear Hybrid OK-37.....	22.2	2.6	79
43	Bear Hybrid OK-69.....	28.0	.3	76
44	Illinois Hybrid 200.....	25.9	2.0	72
45	Illinois Hybrid 784.....	26.5	1.9	71
46	Pioneer Hi-Bred 300.....	30.0	1.0	68
47	Pioneer Hi-Bred 337.....	30.0	1.0	68
48	Ioweaith Hybrid TX 2.....	32.7	1.3	61
49	Crow Hybrid 804.....	34.9	2.4	54
50	Pioneer Hi-Bred 313.....	40.3	2.3	48
51	Crow Hybrid 607.....	42.3	3.4	44
52	Crow Hybrid 701 (W).....	62.1	9.7	26
	Average of hybrid entries.....	19.5	1.0	100
53	Rice White Dent.....	42.2	5.2	....
54	Station Yellow Dent.....	72.9	12.0	....
55	Shuman Golden Beauty.....	68.5	14.4	....
56	Canterbury Yellow Dent.....	78.6	20.3	....
57	Wilson Yellow Dent.....	86.8	23.6	....
	Average of all entries.....	23.6	2.2	....

¹*Diabrotica duodecimpunctata* (F.). ²A difference of less than 5.2 in this column is not significant. ³High rating indicates better standing ability.

Table 30.—SOUTHERN ILLINOIS: Shobonier

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
1941		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Sager Hybrid 33 (W).....	32.7	30.9	5.6	16.8	54.0	69.6	185.0	156.2
2	Pioneer Hi-Bred 313.....	31.3	29.6	5.4	16.0	38.0	49.0	177.2	145.2
3	Crow Hybrid 805.....	26.9	24.1	10.3	17.9	78.0	100.5	144.3	133.4
4	*Pioneer Hi-Bred 332.....	24.9	22.9	8.1	16.5	90.0	116.0	137.1	131.8
5	Hoosier-Crost Hybrid 818.....	24.0	21.7	9.5	16.1	88.0	113.4	129.9	125.8
6	Pioneer Hi-Bred 300.....	23.9	22.0	7.9	16.1	76.0	97.9	131.7	123.3
7	Crow Hybrid 607.....	25.0	22.4	10.6	16.3	66.0	85.1	134.1	121.9
8	Hoosier-Crost Hybrid 1005.....	22.0	20.7	6.0	16.3	86.0	110.8	124.0	120.7
9	*Bear Hybrid OK-55.....	22.4	20.0	10.9	16.0	84.0	108.3	119.8	116.9
10	Crow Hybrid 804.....	22.2	20.0	9.7	15.8	80.0	103.1	119.8	115.6
11	Crow Hybrid 806.....	20.4	19.0	7.0	16.5	82.0	105.7	113.8	111.8
12	Iowaleth Hybrid TX 2.....	21.1	19.5	7.7	17.9	72.0	92.8	116.8	110.8
13	†Illinois Hybrid 784.....	19.9	18.7	5.8	20.6	80.0	103.1	112.0	109.8
14	M-L Hybrid 830 (Moews-Lowe).....	19.9	17.9	9.9	17.1	86.0	110.8	107.2	108.1
15	Iowaleth Hybrid 29A.....	20.9	18.0	14.0	16.0	82.0	105.7	107.8	107.3
16	*Bear Hybrid OK-119.....	19.4	18.0	7.1	19.0	80.0	103.1	107.8	106.6
17	M-L Hybrid 850 (Moews-Lowe).....	20.6	17.9	12.9	17.6	76.0	97.9	107.2	104.9
18	Bear Hybrid OK-66.....	18.6	16.8	9.7	16.0	84.0	108.3	100.6	102.5
19	Illinois Hybrid 784 (Pfeifer).....	19.6	16.9	14.0	17.8	80.0	103.1	101.2	101.7
20	†Illinois Hybrid 838.....	18.4	16.5	10.2	16.6	84.0	108.3	98.8	101.2
21	Illinois Hybrid 805 (Castle).....	18.7	16.4	12.1	18.9	84.0	108.3	98.2	100.7
22	†Illinois Hybrid 877.....	18.4	17.2	6.3	18.2	68.0	87.6	103.0	99.2
22	Seeber Hybrid 11A.....	20.1	16.5	17.9	17.3	78.0	100.5	98.8	99.2
24	Pioneer Hi-Bred 336.....	18.5	15.7	15.3	16.0	88.0	113.4	94.0	98.9
25	*Illinois Hybrid 801 (Station).....	18.1	16.4	9.5	19.2	72.0	92.8	98.2	96.9
26	Illinois Hybrid 877 (Castle).....	16.5	15.2	8.0	17.5	86.0	110.8	91.0	96.0
27	Illinois Hybrid 784 (Castle).....	17.5	15.7	10.4	19.6	78.0	100.5	94.0	95.6
	● Average of 5 hybrid checks.....	16.9	15.5	8.3	18.6	80.4	103.6	92.9	95.6
28	Funk Hybrid G-143.....	16.9	14.7	12.8	18.6	88.0	113.4	88.0	94.4
29	Illinois Hybrid 784 (Whisnand).....	16.8	14.9	11.6	19.2	84.0	108.3	89.2	94.0
29	*National Hybrid 129.....	16.5	14.9	9.6	17.9	84.0	108.3	89.2	94.0
31	Crow Hybrid 701 (W).....	16.6	15.0	9.7	16.5	78.0	100.5	89.8	92.5
32	*Funk Hybrid G-139.....	15.7	14.2	9.3	20.7	82.0	105.7	85.0	90.2
33	*M-L Hybrid 860 (Moews-Lowe).....	15.9	13.8	13.3	19.9	84.0	108.3	82.6	89.0
34	*Illinois Hybrid 288 (Station).....	14.5	12.6	12.9	19.6	92.0	118.6	75.4	86.2
35	St. Charles White.....	16.9	15.1	10.4	18.9	56.0	72.2	90.4	85.9
36	†Illinois Hybrid 448.....	14.1	12.8	9.2	19.6	88.0	113.4	76.6	85.8
37	Funk Hybrid G-147.....	14.8	13.6	8.4	17.6	70.0	90.2	81.4	83.6
38	†Illinois Hybrid 450.....	13.8	12.4	10.0	18.1	82.0	105.7	74.3	82.2
39	Funk Hybrid G-135.....	16.0	12.9	19.2	18.9	72.0	92.8	77.2	81.1
40	*Illinois Hybrid 824 (Station).....	14.1	12.6	10.9	22.6	72.0	92.8	75.4	79.8
41	Pioneer Hi-Bred 337.....	13.4	11.5	14.4	18.2	76.0	97.9	68.9	76.2
42	McLurkin White Dent.....	12.7	11.4	10.3	22.0	74.0	95.4	68.3	75.1
	● Average of 5 open-pollinated var.....	11.3	10.2	9.3	19.3	68.4	88.2	61.0	67.8
43	Mohawk.....	10.4	9.6	7.4	19.2	76.0	97.9	57.5	67.6
44	Champion White Pearl.....	7.5	7.3	2.2	17.5	74.0	95.4	43.7	56.6
45	Blackhawk.....	8.9	7.5	16.0	18.9	62.0	79.9	44.9	53.7
	Average of all entries.....	18.6	16.7	10.2	18.0	77.6	....	....	....

*Less than 5 bushels of seed sampled. †Hand-pollinated hybrid checks.

A difference of less than 6.5 bushels between total yields of any two entries in this table is not significant.

Table 31.—SOUTHERN ILLINOIS: Shobonier Summaries

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
(A) Average yield of entries grown in 1940 and 1941									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Sager Hybrid 33 (W).....	32.3	31.1	3.6	16.6	58.0	75.0	148.8	130.4
2	Pioneer Hi-Bred 313.....	30.8	29.5	4.2	15.1	63.5	82.1	141.1	126.4
3	Hoosier-Crost Hybrid 1005.....	24.2	23.3	4.1	16.9	87.0	112.6	111.5	111.8
4	Pioneer Hi-Bred 300.....	25.6	23.9	6.5	15.8	80.0	103.5	114.4	111.7
5	Pioneer Hi-Bred 332.....	24.2	22.7	6.1	15.7	92.5	119.7	108.6	111.4
6	Crow Hybrid 806.....	24.8	23.4	5.8	18.2	81.5	105.4	112.0	110.4
7	Illinois Hybrid 877.....	23.3	22.2	5.4	17.9	83.5	108.0	106.2	106.7
8	Illinois Hybrid 838.....	23.0	21.7	6.3	17.2	86.0	111.3	103.8	105.7
9	M-L Hybrid 830 (Moews-Lowe).....	21.9	20.6	6.1	17.0	87.0	112.6	98.6	102.1
10	Illinois Hybrid 448.....	21.6	20.7	5.6	20.1	79.5	102.8	99.0	100.0
11	Iowaleth Hybrid 29A.....	22.3	20.4	9.0	17.8	82.5	106.7	97.6	99.9
12	Illinois Hybrid 805.....	21.3	19.9	7.2	19.9	87.0	112.6	95.2	99.6
13	Funk Hybrid G-135.....	22.6	20.7	11.1	18.5	77.0	99.6	99.0	99.2
14	Illinois Hybrid 450.....	20.6	19.4	6.6	19.3	79.5	102.8	92.8	95.3
15	Illinois Hybrid 784.....	22.8	19.5	7.8	19.4	77.3	100.0	93.3	95.0
16	McLurkin White Dent.....	18.6	17.0	9.3	23.9	72.0	93.1	81.3	84.3
17	St. Charles White.....	19.8	17.9	9.4	20.0	59.0	76.3	85.6	83.3
18	Mohawk.....	16.4	15.7	5.2	22.2	73.5	95.1	75.1	80.1
	● Average of 5 open-pollinated varieties.....	16.9	15.7	7.4	21.4	69.0	89.3	75.1	78.7
19	Champion White Pearl.....	14.8	14.4	2.3	19.8	74.5	96.4	68.9	75.8
20	Blackhawk.....	14.8	13.6	10.6	21.4	66.0	85.4	65.1	70.2
	Average of all entries.....	22.3	20.9	6.6	18.6	77.3	....	....	....
(B) Average yield of entries grown in 1939, 1940, 1941									
1	Sager Hybrid 33 (W).....	41.5	40.6	2.7	14.9	71.3	89.6	128.5	118.8
2	Pioneer Hi-Bred 313.....	38.8	37.8	2.9	13.9	75.7	95.1	119.6	113.5
3	Illinois Hybrid 877.....	36.2	35.3	3.4	16.1	82.0	103.0	111.7	109.5
4	Iowaleth Hybrid 29A.....	35.7	34.2	6.4	15.7	87.7	110.2	108.2	108.7
5	Illinois Hybrid 784.....	35.9	34.1	7.1	16.1	83.6	105.0	107.9	107.2
6	Illinois Hybrid 838.....	34.2	33.1	4.7	16.1	89.3	112.2	104.7	106.6
7	Funk Hybrid G-135.....	33.6	32.0	7.9	16.6	83.0	104.3	101.3	102.1
8	St. Charles White.....	31.0	29.5	6.7	18.2	70.0	87.9	93.4	92.0
9	McLurkin White Dent.....	28.5	27.2	6.6	20.6	79.7	100.1	86.1	89.6
10	Mohawk.....	27.8	26.9	4.2	19.1	80.7	101.4	85.1	89.2
	● Average of 5 open-pollinated varieties.....	27.6	26.6	5.3	18.8	76.6	96.2	84.2	87.2
11	Champion White Pearl.....	24.9	24.4	2.0	17.9	81.0	101.8	77.2	83.4
12	Blackhawk.....	25.4	24.5	7.2	19.1	71.0	89.2	77.5	80.4
	Average of all entries.....	32.8	31.6	5.2	17.0	79.6	....	....	....
(C) Average yield of entries grown in 1938, 1939, 1940, 1941									
1	Illinois Hybrid 784.....	40.2	38.9	5.3	16.8	79.4	108.9	111.8	111.1
2	Illinois Hybrid 877.....	38.2	37.4	3.2	15.0	81.0	111.1	107.5	108.4
3	Pioneer Hi-Bred 313.....	37.4	36.7	2.3	13.2	68.3	93.7	105.5	102.6
4	St. Charles White.....	36.7	35.4	5.3	17.6	67.3	92.3	101.7	99.4
	● Average of 5 open-pollinated varieties.....	32.8	32.0	4.1	18.2	71.5	98.1	92.0	93.5
5	Champion White Pearl.....	30.9	30.4	1.7	17.8	75.1	103.0	87.4	91.3
6	Blackhawk.....	30.5	29.8	5.4	18.9	66.5	91.2	85.6	87.0
	Average of all entries.....	35.9	34.8	3.9	16.6	72.9	....	....	....

Table 32.—SOUTHEASTERN ILLINOIS: Albion

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
	1941	bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Pioneer Hi-Bred 313.....	70.8	68.7	3.0	14.0	91.7	120.8	119.3	119.7
2	*Pioneer Hi-Bred 332.....	68.6	65.3	4.8	15.0	90.0	118.6	113.4	114.7
3	Pioneer Hi-Bred 333.....	66.5	65.2	1.9	13.8	90.0	118.6	113.2	114.6
4	Henley & Whisnand Hybrid 834 (Whis.)	66.8	63.9	4.4	16.1	83.3	109.7	110.9	110.6
5	U. S. Hybrid 13 (Pfeifer).....	65.3	63.5	2.7	15.7	83.3	109.7	110.2	110.1
6	*Bear Hybrid OK-31.....	63.0	61.1	3.0	15.5	91.7	120.8	106.1	109.8
7	†Illinois Hybrid 784.....	67.2	64.6	3.8	17.1	75.0	98.8	112.2	108.9
8	Crow Hybrid 607.....	66.3	64.4	2.9	15.9	75.0	98.8	111.8	108.6
9	*Illinois Hybrid 1500 (Station).....	64.4	62.1	3.5	14.4	81.7	107.6	107.8	107.8
10	†Illinois Hybrid 877.....	63.8	61.9	2.9	16.0	81.7	107.6	107.5	107.5
11	Hoosier-Crost Hybrid 1005.....	66.7	63.5	4.8	14.4	75.0	98.8	110.2	107.4
12	Pioneer Hi-Bred 300.....	62.7	60.6	3.3	14.7	85.0	112.0	105.2	106.9
13	†Illinois Hybrid 838.....	63.6	62.3	2.1	16.4	76.7	101.1	108.2	106.4
14	*Bear Hybrid OK-99.....	70.7	65.5	7.4	16.5	60.0	79.1	113.7	105.1
15	Crow Hybrid 805.....	61.3	58.7	4.3	15.7	86.7	114.2	101.9	105.0
16	Illinois Hybrid 784 (Whisnand).....	65.4	62.8	3.9	16.4	70.0	92.2	109.0	104.8
17	Crow Hybrid 804.....	64.1	61.7	3.8	14.9	73.3	96.6	107.1	104.5
18	*Illinois Hybrid 713A (Station).....	63.9	60.3	5.6	17.0	78.3	103.2	104.7	104.3
19	Crow Hybrid 806.....	63.3	60.6	4.2	17.2	75.0	98.8	105.2	103.6
	●Average of 5 hybrid checks.....	62.6	60.3	3.7	16.4	72.4	95.3	104.7	102.4
20	*Illinois Hybrid 700 (Station).....	64.4	62.5	2.9	17.5	63.3	83.4	108.5	102.2
21	lowealth Hybrid 29A.....	61.9	58.6	5.3	15.9	75.0	98.8	101.7	101.0
22	Funk Hybrid G-528 (W).....	59.7	58.1	2.7	16.7	76.7	101.1	100.9	101.0
23	*Illinois Hybrid 801 (Station).....	59.6	57.1	4.2	17.4	73.3	96.6	99.1	98.5
24	*M-L Hybrid 860 (Moews-Lowe).....	60.0	58.1	3.1	16.9	68.3	90.0	100.9	98.2
25	Farmcraft Hybrid 82.....	55.5	52.3	5.7	15.3	88.3	116.3	90.8	97.2
26	Crow Hybrid 701 (W).....	62.5	59.4	4.9	17.3	58.3	76.8	103.1	96.5
27	Funk Hybrid G-147.....	55.9	53.2	4.9	15.8	81.7	107.6	92.4	96.2
28	†Illinois Hybrid 450.....	61.9	59.2	4.3	16.0	56.7	74.7	102.8	95.8
29	St. Charles White.....	58.8	55.9	5.0	16.5	68.3	90.0	97.0	95.3
30	Funk Hybrid G-88.....	56.6	54.4	3.8	19.1	73.3	96.6	94.4	95.0
31	*Illinois Hybrid 275 (Station).....	54.8	53.3	2.7	19.1	75.0	98.8	92.5	94.1
32	†Illinois Hybrid 448.....	56.3	53.4	5.2	16.7	71.7	94.5	92.7	93.2
33	Wilson Yellow Dent.....	56.8	54.2	4.5	17.7	65.0	85.6	94.1	92.0
34	Funk Hybrid G-580 (W).....	51.2	49.5	3.3	16.6	80.0	105.4	85.9	90.8
35	Funk Hybrid G-135.....	53.7	51.6	4.0	18.0	66.7	87.9	89.6	89.2
36	McLurkin White Dent.....	48.4	47.0	2.9	17.8	80.0	105.4	81.6	87.6
37	Pioneer Hi-Bred 337.....	53.2	50.9	4.3	18.4	60.0	79.1	88.4	86.1
38	Farmcraft Hybrid 132 (W).....	44.5	43.4	2.4	19.4	85.0	112.0	75.3	84.5
	●Average of 5 open-pollinated varieties.....	48.6	46.6	4.1	17.8	72.0	94.8	80.9	84.4
39	Champion White Pearl.....	41.1	40.3	1.9	18.0	73.3	96.6	70.0	76.7
40	Leaming.....	37.8	35.5	6.0	18.8	73.3	96.6	61.6	70.4
	Average of all entries.....	60.0	57.6	3.9	16.5	75.9	....	....	....

*Less than 5 bushels of seed sampled. †Hand-pollinated hybrid checks.

A difference of less than 8.5 bushels between total yields of any two entries in this table is not significant.

Table 33.—SOUTHEASTERN ILLINOIS: Albion Summaries

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
(A) Average yields of entries grown in 1940 and 1941									
		bu.	bu.	percl.	percl.	percl.	percl.	percl.	
1	Pioneer Hi-Bred 333	73.1	71.9	1.7	13.7	73.0	136.5	109.6	116.3
2	Pioneer Hi-Bred 332	76.9	75.0	2.7	15.3	62.5	116.8	114.3	114.9
3	Pioneer Hi-Bred 313	76.1	74.8	1.8	17.0	59.4	111.0	114.0	113.3
4	Pioneer Hi-Bred 300	73.8	72.3	2.2	14.3	62.5	116.8	110.2	111.9
5	Bear Hybrid OK-99	79.1	76.2	4.1	15.9	43.0	80.4	116.2	107.3
6	Funk Hybrid G-528 (W)	72.4	71.5	1.5	15.7	51.9	97.0	109.0	106.0
7	Illinois Hybrid 877	71.2	70.1	1.7	15.5	50.9	95.1	106.9	104.0
8	Hoosier-Crost Hybrid 1005	70.6	68.5	3.1	14.3	53.0	99.1	104.4	103.1
9	Illinois Hybrid 784	71.5	69.7	2.6	16.8	49.8	93.1	106.3	103.0
10	Iowaleth Hybrid 29A	70.5	68.5	3.1	15.2	52.0	97.2	104.4	102.6
11	Funk Hybrid G-580 (W)	63.4	62.3	2.0	15.7	64.0	119.6	95.0	101.2
12	Crow Hybrid 806	69.2	67.2	3.0	16.2	51.0	95.3	102.4	100.6
13	Funk Hybrid G-88	63.5	62.3	2.0	18.4	62.2	116.3	95.0	100.3
14	Illinois Hybrid 448	66.3	64.6	2.9	16.7	50.9	95.1	98.5	97.7
15	Crow Hybrid 701 (W)	66.9	65.2	2.6	16.9	44.2	82.6	99.4	95.2
16	Funk Hybrid G-135	63.1	61.6	2.7	17.4	52.9	98.9	93.9	95.2
17	Illinois Hybrid 450	67.4	65.3	3.2	16.7	38.9	72.7	99.5	92.8
18	Wilson Yellow Dent	60.9	59.6	2.4	16.7	41.5	77.6	90.9	87.6
19	St. Charles White	59.0	57.4	2.8	16.1	46.7	87.3	87.5	87.5
●	Average of 5 open-pollinated varieties	53.5	52.3	2.2	17.0	50.0	93.5	79.7	83.2
20	McLurkin White Dent	49.6	48.9	1.6	17.7	58.0	108.4	74.5	83.0
21	Champion White Pearl	45.5	44.8	1.4	17.4	55.7	104.1	68.3	77.3
	Average of all entries	67.1	65.6	2.4	16.2	53.5	....	....	....
(B) Average yields of entries grown in 1939, 1940, 1941									
1	Pioneer Hi-Bred 313	75.3	73.3	2.7	14.9	72.6	110.7	113.6	112.9
2	Funk Hybrid G-528 (W)	72.5	70.9	2.4	14.3	67.9	103.5	109.9	108.3
3	Iowaleth Hybrid 29A	70.9	68.4	3.7	14.0	68.0	103.7	106.0	105.4
4	Crow Hybrid 806	70.4	68.5	2.7	14.7	66.3	101.1	106.2	104.9
5	Funk Hybrid G-135	66.0	63.7	3.6	15.5	68.6	104.6	98.8	100.3
6	Crow Hybrid 701 (W)	66.1	63.4	4.1	15.0	62.4	95.1	98.3	97.5
7	St. Charles White	60.6	59.3	2.3	14.6	62.4	95.1	91.9	92.7
8	Wilson Yellow Dent	61.1	59.9	2.0	14.7	58.0	88.4	92.9	91.8
●	Average of 5 open-pollinated varieties	56.2	55.2	1.9	15.2	64.3	98.0	85.6	88.7
9	McLurkin White Dent	53.7	53.2	.8	15.2	64.5	98.3	82.5	86.5
	Average of all entries	66.3	64.5	2.7	14.8	65.6	....	....	....
(C) Average yields of entries grown in 1938, 1939, 1940, 1941									
1	Pioneer Hi-Bred 313	78.0	76.2	2.4	14.5	77.9	110.7	107.6	108.4
2	Funk Hybrid G-528 (W)	78.7	77.5	1.8	14.0	71.2	101.1	109.5	107.4
3	Crow Hybrid 701 (W)	70.9	68.8	3.2	14.8	69.3	98.4	97.2	97.5
4	St. Charles White	66.7	65.7	1.8	14.7	69.1	98.2	92.8	94.2
5	Wilson Yellow Dent	67.0	65.8	1.8	14.3	64.5	91.6	92.9	92.6
●	Average of 5 open-pollinated varieties	62.4	61.5	1.6	15.0	69.0	98.0	86.9	89.7
	Average of all entries	72.3	70.8	2.2	14.5	70.4	....	....	....

Table 34.—SOUTHWESTERN ILLINOIS: Modoc

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mols- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
	1941	bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	*Illinois Hybrid 713 (Station).....	56.9	55.8	2.0	14.5	66.7	151.9	113.6	123.2
2	Hoosier-Crost Hybrid 1005.....	57.8	56.9	1.5	14.2	58.3	132.8	115.9	120.1
3	Crow Hybrid 805.....	54.7	54.3	.8	14.6	60.0	136.7	110.6	117.1
4	Pioneer Hi-Bred 336.....	57.3	56.4	1.6	14.8	51.7	117.8	114.9	115.6
5	*Funk Hybrid G-139.....	54.3	52.7	2.9	15.4	60.0	136.7	107.3	114.7
6	Pioneer Hi-Bred 313.....	56.3	55.6	1.2	14.1	51.7	117.8	113.2	114.4
7	Pfeifer Hybrid A-1-40.....	55.8	54.9	1.7	14.6	51.7	117.8	111.8	113.3
8	Illinois Hybrid 805 (Castle).....	53.7	52.5	2.2	15.5	51.7	117.8	106.9	109.6
9	Crow Hybrid 806.....	53.6	52.4	2.2	14.9	51.7	117.8	106.7	109.5
10	*Illinois Hybrid 700 (Station).....	54.6	53.6	1.8	15.1	48.3	110.0	109.2	109.4
11	*Illinois Hybrid 1500 (Station).....	54.4	54.0	.7	15.7	45.0	102.5	110.0	108.1
12	Iowaleth Hybrid 29A.....	53.0	51.9	2.0	14.7	50.0	113.9	105.7	107.8
13	Pioneer Hi-Bred 300.....	52.9	52.2	1.3	14.5	48.3	110.0	106.3	107.2
14	*Bear Hybrid OK-99.....	57.9	57.0	1.6	15.3	35.0	79.7	116.1	107.0
15	*Pioneer Hi-Bred 332.....	53.0	52.2	1.6	14.6	46.7	106.4	106.3	106.3
16	*National Hybrid 129.....	52.9	51.2	3.2	15.3	46.7	106.4	104.3	104.8
17	*Bear Hybrid OK-56.....	55.5	54.8	1.3	15.6	36.7	83.6	111.6	104.6
18	Crow Hybrid 607.....	48.8	48.2	1.3	14.1	53.3	121.4	98.2	104.0
19	Illinois Hybrid 877 (Castle).....	51.8	51.1	1.4	15.6	45.0	102.5	104.1	103.7
20	*Bear Hybrid OK-39.....	49.9	49.4	1.0	15.3	48.3	110.0	100.6	103.0
20	Crow Hybrid 804.....	46.3	45.7	1.3	14.7	58.3	132.8	93.1	103.0
22	*Illinois Hybrid 801 (Station).....	56.5	55.8	1.2	15.7	30.0	68.3	113.6	102.3
23	†Illinois Hybrid 838.....	51.0	50.0	1.9	15.9	40.0	91.1	101.8	99.1
24	*National Hybrid 134.....	49.1	48.3	1.6	16.1	43.3	98.6	98.4	98.5
25	Crow Hybrid 701 (W).....	44.5	43.7	1.9	15.7	55.0	125.3	89.0	98.1
26	Pioneer Hi-Bred 337.....	47.0	46.5	1.0	15.9	43.3	98.6	94.7	95.7
27	†Illinois Hybrid 877.....	52.7	51.8	1.7	15.6	25.0	56.9	105.5	93.4
28	Illinois Hybrid 784 (Castle).....	50.2	49.8	.7	15.4	30.0	68.3	101.4	93.1
29	Funk Hybrid G-147.....	47.4	46.8	1.3	15.6	36.7	83.6	95.3	92.4
30	Mohawk.....	38.8	37.9	2.3	15.8	60.0	136.7	77.2	92.1
31	St. Charles White.....	42.6	40.8	4.2	14.8	51.7	117.8	83.1	91.8
32	Morgan Hybrid M-75.....	44.6	43.9	1.6	15.2	43.3	98.6	89.4	91.7
33	Leaming.....	41.5	40.5	2.3	16.3	51.7	117.8	82.5	91.3
34	*Missouri Hybrid 8 (McMullin).....	45.1	44.2	1.9	17.2	40.0	91.1	90.0	90.3
	●Average of 5 hybrid checks.....	50.0	49.1	1.7	15.5	26.7	60.8	100.0	90.2
35	Iowaleth Hybrid TX 1.....	49.4	48.4	2.1	17.0	28.3	64.5	98.6	90.1
36	Funk Hybrid G-527 (W).....	44.9	44.0	2.0	16.3	38.3	87.2	89.6	89.0
	●Average of 5 open-pollinated varieties.....	39.7	38.8	2.5	15.7	51.7	117.7	79.1	88.8
37	†Illinois Hybrid 448.....	49.2	48.0	2.4	15.5	26.7	60.8	97.8	88.6
38	Funk Hybrid G-46.....	48.7	48.3	.8	15.5	25.0	56.9	98.4	88.0
39	†Illinois Hybrid 450.....	49.7	49.0	1.5	17.0	21.7	49.4	99.8	87.2
40	Champion White Pearl.....	40.0	39.1	2.3	16.6	46.7	106.4	79.6	86.3
41	†Illinois Hybrid 784.....	47.3	46.8	1.0	15.4	20.0	45.6	95.3	82.9
42	McLurkin White Dent.....	36.4	35.9	1.3	15.1	48.3	110.0	73.1	82.3
43	*Illinois Hybrid 275 (Station).....	41.8	40.3	3.7	17.1	16.7	38.0	82.1	71.1
	Average of all entries.....	50.0	49.1	1.8	15.4	43.9	....	....	....

*Less than 5 bushels of seed sampled. †Hand-pollinated hybrid checks.

A difference of less than 7.8 bushels between total yields of any two entries in this table is not significant.

Table 35.—SOUTHWESTERN ILLINOIS: Modoc Summaries

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Rating for—		
		Total	Sound				Erect plants	Sound yield	General perform.
(A) Average yield of entries grown in 1940 and 1941									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Pioneer Hi-Bred 313.....	66.2	65.7	.8	13.3	72.9	113.7	112.7	113.0
2	Hoosler-Crost Hybrid 1005.....	64.1	63.5	1.0	14.4	74.7	116.5	108.9	110.8
3	Pfeifer Hybrid A-1-40.....	65.5	64.8	1.1	14.4	67.4	105.2	111.2	109.7
4	Bear Hybrid OK-99.....	67.0	66.4	1.0	15.0	59.5	92.8	113.9	108.6
5	Bear Hybrid OK-39.....	62.5	62.1	.7	14.9	69.2	108.0	106.5	106.9
6	Iowaleth Hybrid 29A.....	61.9	61.1	1.3	14.2	70.5	110.0	104.8	106.1
7	Pioneer Hi-Bred 300.....	61.8	61.1	1.1	14.5	70.2	109.5	104.8	106.0
8	Pioneer Hi-Bred 332.....	61.5	60.9	1.1	14.8	67.9	105.9	104.5	104.9
9	Illinois Hybrid 838.....	61.9	61.2	1.2	15.2	65.0	101.4	105.0	104.1
10	Crow Hybrid 806.....	61.3	59.9	2.3	15.5	68.4	106.7	102.7	103.7
11	Funk Hybrid G-46.....	62.2	61.9	.5	14.9	57.0	88.9	106.2	101.9
12	National Hybrid 134.....	59.8	59.3	.9	16.0	63.2	98.6	101.7	100.9
13	Crow Hybrid 701 (W).....	57.2	56.4	1.5	15.6	70.5	110.0	96.7	100.0
14	Illinois Hybrid 877.....	61.3	60.7	1.1	15.2	56.0	87.4	104.1	99.9
15	Illinois Hybrid 450.....	63.3	62.9	.8	16.4	46.4	72.4	107.9	99.0
15	Illinois Hybrid 448.....	60.6	59.9	1.4	16.2	56.4	88.0	102.7	99.0
17	Iowaleth Hybrid TX 1.....	59.6	58.9	1.4	17.7	57.7	90.0	101.0	98.3
18	Illinois Hybrid 784.....	61.3	61.0	.5	15.9	50.0	78.0	104.6	98.0
19	Funk Hybrid G-527 (W).....	57.3	56.8	1.1	16.6	62.2	97.0	97.4	97.3
20	Illinois Hybrid 448.....	60.1	59.3	1.5	15.7	53.4	83.3	101.7	97.1
21	Leaming.....	52.5	51.8	1.6	17.9	68.4	106.7	88.9	93.4
22	Mohawk.....	46.8	46.2	1.5	17.4	74.5	116.2	79.2	88.5
	● Average of 5 open-pollinated varieties.....	47.6	47.0	1.6	17.1	68.7	107.2	80.6	87.3
23	St. Charles White.....	46.9	45.9	2.2	15.8	71.4	111.4	78.7	86.9
24	McLurkin White Dent.....	46.0	45.4	1.1	16.6	65.7	102.5	77.9	84.1
25	Champion White Pearl.....	46.1	45.5	1.4	18.0	63.4	98.9	78.0	83.2
	Average of all entries.....	59.0	58.3	1.2	15.7	64.1	....	....	....
(B) Average yield of entries grown in 1939, 1940, 1941									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Pioneer Hi-Bred 313.....	68.9	68.3	.9	13.8	80.2	108.8	113.8	112.6
2	Illinois Hybrid 450.....	68.3	67.9	.7	16.1	63.9	86.7	113.2	106.6
3	Iowaleth Hybrid 29A.....	64.4	63.2	1.8	14.4	78.5	106.5	105.3	105.6
4	Illinois Hybrid 448.....	66.2	65.5	1.2	16.2	69.5	94.3	109.2	105.5
5	Funk Hybrid G-46.....	66.6	65.3	1.9	14.5	69.8	94.7	108.8	105.3
6	Funk Hybrid G-527 (W).....	62.9	62.5	.9	16.4	72.8	98.8	104.2	102.9
7	Illinois Hybrid 784.....	64.6	64.1	.7	16.2	65.8	89.3	106.8	102.4
8	Leaming.....	55.6	54.2	2.6	18.7	74.8	101.5	90.3	93.1
9	St. Charles White.....	52.6	51.4	2.4	15.9	79.0	107.2	85.7	91.1
10	Mohawk.....	50.4	49.7	1.5	17.2	80.9	109.8	82.8	89.6
	● Average of 5 open-pollinated varieties.....	51.3	50.2	2.1	17.1	76.3	103.5	83.7	88.7
11	McLurkin White Dent.....	49.3	48.2	2.1	17.0	75.0	101.8	80.3	85.7
	Average of all entries.....	60.9	60.0	1.5	16.0	73.7	....	....	....

SOIL ADAPTATION TEST

Seventeen double-cross hybrids and one open-pollinated variety were tested at Urbana in 1941 on two fields of different fertility levels. One test was on a well-improved highly fertile soil, the other on a soil usually medium to low in productivity.

Season. Weather conditions favored high yields on both areas thruout the season, even tho rainfall was light during late June and early July.

Soils. The two areas used for the tests are on the Agronomy south farm and differ in productivity as a result of the long-continued use of different cropping systems. In the Southwest rotation a high state of productivity has been maintained by systematically rotating corn, oats, clover hay, and wheat with a red-clover catch crop. The South-Central area has been depleted of fertility by a rotation of corn, corn, corn, and soybeans. Both plots have received manure and phosphate. The Southwest rotation has had slightly more limestone than the South-Central. The soil type of the two fields is mainly Muscatine silt loam.

1941 results. Yields in 1941 were exceedingly high on both fields, owing to very favorable weather conditions. They surpassed by a wide margin those made in previous years. On the less fertile plot they were surprisingly high, thus obscuring the inherent differences in the different entries.

Of particular interest in this test are the seven hybrids:

U.S. 5	(WF9 × 38-11)	(R4 × L317)
U.S. 13	(WF9 × 38-11)	(Hy × L317)
Illinois 126	(WF9 × 38-11)	(Tr × L317)
Illinois 201	(WF9 × 38-11)	(187-2 × L317)
Illinois 205	(WF9 × 38-11)	(159L1 × L317)
Illinois 500	(WF9 × 38-11)	(701 × L317)
Illinois 500-1	(WF9 × 38-11)	(07 × L317)

These hybrids have in common three inbred parents—WF9, 38-11, and L317—and differ only in the fourth inbred parent.

Hybrids containing WF9, 38-11, and L317 surpass most other combinations in yields on the soils of central Illinois, especially on the more fertile ones. When a hybrid containing these inbreds is grown on different soils, it displays widely different characteristics, which quite often make the hybrid in which they occur unsatisfactory.

Hybrids containing WF9 and 38-11 frequently show very undesirable ear and kernel characteristics when grown on poor soil. On fertile soil hybrids containing L317 have the very bad fault of stalk-breaking.

If the yields had not been abnormally high on the less productive area, this test would have furnished valuable information concerning

the influence of the various lines on the characteristics exhibited by the WF9, 38-11, and L317 combination. (Some of these hybrids are illustrated in Bulletin 463, reporting the 1939 tests.)

On the high fertility level the five top-ranking hybrids have WF9,

Table 36.—SOIL ADAPTATION TEST: Central Illinois, Urbana

Rank	Entry	Total acre yield	Mois- ture in grain at harvest	Erect plants	Rating for—		
					Erect plants	General perform.	Total yield
MUSCATINE SILT LOAM: Productivity high (Southwest rotation)							
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>		<i>perct.</i>
1	Illinois Hybrid 201.....	133.1	15.0	87	101.6	106.0	107.4
2	U. S. Hybrid 13.....	133.0	15.7	93	108.6	107.6	107.3
3	Illinois Hybrid 205.....	131.4	15.3	93	108.6	106.7	106.1
4	U. S. Hybrid 5.....	130.9	15.7	92	107.5	106.1	105.6
5	Illinois Hybrid 500.....	126.6	15.7	93	108.6	103.8	102.2
6	Illinois Hybrid 246.....	126.5	16.9	93	108.6	103.7	102.1
7	Illinois Hybrid 960.....	125.1	15.7	68	79.4	95.6	101.0
8	Illinois Hybrid 578.....	124.8	16.6	93	108.6	102.7	100.7
9	Sibley Farms Hybrid 753B.....	124.7	15.8	98	114.5	104.1	100.6
10	Illinois Hybrid 247.....	124.4	16.4	90	105.1	101.6	100.4
11	Illinois Hybrid 257.....	123.8	15.7	67	78.2	94.5	99.9
12	Illinois Hybrid 500-1.....	122.0	15.7	97	113.3	102.2	98.5
13	Illinois Hybrid 126.....	121.9	16.9	87	101.6	99.2	98.4
14	Illinois Hybrid 972.....	121.0	15.9	88	102.8	99.0	97.7
15	Illinois Hybrid 374.....	119.4	16.4	75	87.6	94.2	96.4
16	Stiegelmeier Hybrid 365.....	118.2	16.7	78	91.1	94.3	95.4
17	Crow Hybrid 360A.....	114.9	16.4	70	81.8	90.0	92.7
18	● Station Yellow Dent.....	107.9	17.2	78	91.1	88.1	87.1
	Average.....	123.9	16.1	85.6	....	....	....
MUSCATINE SILT LOAM: Productivity medium (South central rotation)							
1	U. S. Hybrid 13.....	94.5	16.9	90	107.3	108.7	109.1
2	Illinois Hybrid 500.....	93.7	17.5	97	115.6	110.0	108.2
3	Illinois Hybrid 972.....	93.4	16.5	90	107.3	107.8	107.9
4	Illinois Hybrid 374.....	92.2	17.2	90	107.3	106.7	106.5
5	Illinois Hybrid 246.....	91.3	17.9	75	89.4	101.4	105.4
6	Illinois Hybrid 257.....	91.1	17.9	53	63.2	94.7	105.2
7	Illinois Hybrid 205.....	90.8	18.5	77	91.8	101.6	104.9
8	Illinois Hybrid 578.....	90.2	17.2	92	109.7	105.7	104.3
9	Illinois Hybrid 201.....	89.3	21.0	92	109.7	104.8	103.1
10	Illinois Hybrid 500-1.....	88.4	16.9	90	107.3	103.4	102.1
11	U. S. Hybrid 5.....	88.1	17.3	92	109.7	103.8	101.8
12	Sibley Farms Hybrid 753B.....	84.7	17.2	97	115.6	102.2	97.8
13	Crow Hybrid 360A.....	81.6	16.6	67	79.9	90.6	94.2
14	Illinois Hybrid 960.....	81.4	17.8	87	103.7	96.4	94.0
15	Stiegelmeier Hybrid 365.....	79.5	22.1	92	109.7	96.3	91.8
16	Illinois Hybrid 247.....	79.4	19.7	65	77.5	88.1	91.7
17	Illinois Hybrid 126.....	78.2	20.5	82	97.7	92.1	90.3
18	● Station Yellow Dent.....	71.3	19.0	82	97.7	86.2	82.4
	Average.....	86.6	18.2	83.9	....	....	....

38-11, and L317 as common parents. Only two hybrids having that combination are at the top in the less productive area. Hybrids having this combination are not generally recommended for soils of low productivity, but if they are used, Hy and 701 are the inbred lines that best support the WF9, 38-11, and L317 combination.

SUMMARY

1. The average yield of corn on the twelve fields in the Illinois corn-performance tests in 1941 was 82.9 bushels an acre, which is the highest average ever recorded for the tests and 30.4 bushels an acre more than the estimated state average. During the eight years (1934-1941) over which these tests have been conducted, the average yields on the test fields have exceeded the average yields of the state by 111, 94, 79, 64, 47, 53, 64, and 58 percent respectively.

2. The five best hybrids on all twelve fields yielded an average of 18.6 bushels sound corn an acre more than the open-pollinated varieties and 16.5 bushels more than the five poorest hybrids.

3. The average percentage of dropped ears on the west-central field at Littleton was .95, and on the central field at Mt. Pulaski was 1.16. At Littleton 7 hybrids had over 3 percent dropped ears, and at Mt. Pulaski 2 hybrids had over 4 percent of their ears on the ground.

4. Each year higher-yielding hybrids have been entered than were entered the year before. This is indicated by the fact that the entries which rank first in the five-year summaries have an average rank of third in the four-year summaries, sixth in the three-year summaries, and ninth in the two-year summaries. The progressive improvement of hybrids is further shown in the amount by which hybrids have exceeded open-pollinated varieties in average total yields—12.7 bushels more in the five-year summaries, 13.0 bushels in the four-year summaries, 13.1 bushels in the three-year summaries, and 14.2 bushels in the two-year summaries.

5. The susceptibility of many hybrids to the southern corn rootworm was responsible for much of the farmers' difficulty in harvesting the 1941 crop. Differences in the resistance or susceptibility of commercial hybrids were recorded on the Reddick, Littleton, Mt. Pulaski, Paxton, and Greenfield fields. Rootworm damage was particularly severe at Littleton and Paxton so that hybrids remaining erect on these fields demonstrated superior rootworm resistance. Some hybrids consistently gave a good account of themselves.

6. Corn ear rots caused more damage in Illinois in 1941 than in any year since 1934. Wide differences in amount of kernel damage occurred in different hybrids. Diplodia stalk rot caused premature dying and breaking down of stalks in a considerable area of the state for the third time in the last five years. Striking differences in resistance and susceptibility of various entries occurred on the Sullivan and Mt. Pulaski test fields.

7. In the soil-adaptation test at Urbana favorable weather conditions resulted in extraordinarily high yields, favoring especially those hybrids adapted to good soil. On the high-fertility level the five top-ranking hybrids had WF9, 38-11, and L317 as common parents. Hy and 701 are the inbreds that support this combination on the less productive area.

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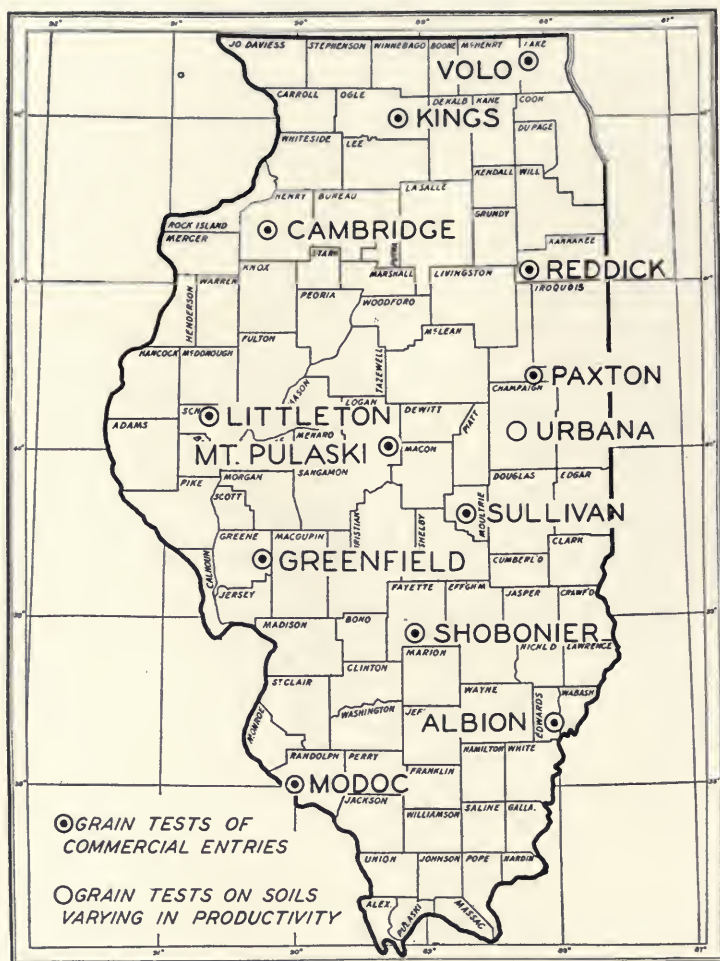
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LOCATION OF 1941 TEST FIELDS



Twelve fields, distributed so as to represent the more important climatic areas of the state, were used in the 1941 general-performance tests; one other, Urbana, was used in soil-adaptability tests.

The fields chosen for the tests were, on the whole, medium to high in productivity.

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